704 FORTRAN II TABLE OF CONTENTS FOR 4K-8K VERSION

SAP LISTINGS OF THE 4K AND 8K DRUM VERSIONS.

THESE LISTINGS CONSTITUTE THE ENTIRE FINAL VERSION OF 704 FORTRAN II. LISTINGS OF ASSOCIATED PROGRAMS, SUCH AS THE EDITOR, HAVE ALSO BEEN INCLUDED. THE LISTINGS HAVE BEEN ARRANGED SO THAT THERE IS A CLOSE CORRESPONDENCE WITH THE RECORDS ON THE FINAL FORTRAN II MASTER TAPE. WHEREVER, ON THE MASTER TAPE, A SINGLE FORTRAN RECORD MUST APPEAR AS SEPARATE 4K AND 8K VERSIONS, THE MAIN LISTINGS SEQUENCE INCLUDES THE 4K VERSION. THE 8K RECORDS, THEREFORE, APPEAR AT THE END. FURTHER INFORMATION PERTINENT TO THESE LISTINGS AND THE FORTRAN II MASTER TAPE CAN BE FOUND IN THE OPERATIONS MANUAL, PARTICULARLY ON PAGES 5 THROUGH 15.

THE FOLLOWING FORTRAN II RECORDS ARE DIAGNOSTIC CALL-IN RECORDS AND ARE BASICALLY THE SAME. FOR THIS REASON THEY HAVE BEEN OMITTED FROM THE MAIN LISTINGS. AN EXAMPLE OF A DIAGNOSTIC CALL-IN RECORD CAN BE FOUND ON PAGE 969 OF THESE LISTINGS.

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6	040	059	079	097
" 8	042	061	081	099
23	044	063	083	102
25	046	066	085	104
28	048	068	087	106
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```
REM 704 FORTRAN SELF LOADING RECORD 1 TO CS.
                           LXA O.1
00000 0 53400 1 00000
                           CPY 2.1
00001 0 70000 1 00002
00002 1 00001 1 00001
                           TXI 1.1.1
                           CPY 25:1
00003 0 70000 1 00031
                           HTR 3
00004 0 00000 0 00003
                                                                                     Enter at 04 to read
                                                     IN MEMORY
                                                                   IT LOOKS
                           TZE 0
00005 0 10000 0 00000
                           COM
00006 0 76000 0 00006
                                                                    0,1
                           ACL 2
00007 0 36100 0 00002
                                                                                         I 'm = chack sum
                           COM
                                                            CPY
00010 0 76000 0 00006
                                                      0 1
                                                                    25,1
                                                                                         2 address = starting cone
                           TRA 23
00011 0 02000 0 00027
                                                            LTM
                           RTT
00012 -0 76000 0 00012
                                                            BST
                                                                   1 45
                           100
                                                                                         2 decrement = transfer location
00013 0 76600 0 00333
                           HTR 0
                                                                    23,1
00014 0 00000 0 00000
00015 1 77777 1 00015
                           TXI 13,1,-1
                           CAD 0.1
00016 -0 70000 1 00000
                           CAL 15
00017 -0 50000 0 00017
```

15

16

20

22

23

24

CPY

STA

STA

CAL

 $C \not\vdash D$

MTR

 $G \circ I$

r r A

TRA

COM

ACL COM てそど

15

13

13,1

23

00020 0 62100 0 00026

00022 0 62100 0 00015

00024 0 70000 0 00017

00025 0 70000 0 00002

00026 0 76200 0 00221

00027 -0 53400 1 00027

00030 1 0 70000 0 00003 2

00031 -0 76000 0 00007

#3376 g +*126 00000 g

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00032 0 76400 0 00221

00021 0 77100 0 00022

00023 -0 50000 0 00017

STA 22

ARS 18 STA 13

CAL 15

CPY 15

CPY 2 RTB 1

LXD 23.1

CPY 3

LTM

END

```
REM FORTRAN 11 CARD-TO-TAPE
                                        FORTRAN II CARD-TO-TAPE
                                    ORG 72
      00110 0 76200 0 00321 BEGIN RCD 1
                                    LXD ADDO1+1
      00111 -0 53400 1 00125
                                    LXD ADD02+2
      00112 -0 53400 2 00127
                                                          COPY 92
                              ADD23 CPY L9ROW
      00113 0 70000 0 00340
                                    TXL ADD03.
      00114 -3 00000 0 00116
                                                          EOF TR
                                    TRA 2:4
      00115 0 02000 4 00002
      00116 -0 60000 0 00332 ADD03 STQ DATA1
                                                          STORE 9L
                                    SXD ADDO1+1
      00117 -0 63400 1 00125
                                  SXD ADD02+2
      00120 -0 63400 2 00127
                                    LXD ADDO4+1
      00121 -0 53400 1 00135
                                                          COPY 9R
                                  CPY R9ROW
      00122 0 70000 0 00341
                                    STQ DATA2
                                                          STORE 9R
      00123 -0 60000 0 00333
                                                          EXIT ENTRY1 SUBI
                                    TSX SUB1-2
      00124 0 07400 2 00265
      00125 -3 00000 0 00130 ADDO1 TXL ADDO5
                                                          RETURN1
TD
                                                          RETURN2
      00126 0 76700 0 00001
                                    ALS 1
      00127 -3 00000 0 00317 ADD02 TXL ADD06
                                                          EXIT TO ENTRY2 SUB1
      00130 0 70000 0 00334 ADDO5 CPY DATA3
                                    STO DATAL
      00131 -0 60000 0 00332
                                                          COPY RIGHT
                                    CPY DATA4
      00132 0 70000 0 00335
      00133 -0 60000 0 00333
                                    STO DATA2
                                    TSX SUB1+2
      00134 0 07400 2 00265
                                                          RETURN1
      00135 -3 00010 0 00140 ADD04 TXL ADD07:0:8
                                                          RETURNZ
                                    ALS 3
      00136 0 76700 0 00003
      00137 -3 00000 0 00316
                                    TXL ADDOS
                              ADDOT CAL LOROW
      00140 -0 50000 0 00340
      00141 0 60200 0 00332
                                    SLW DATAL
      00142 -0 50000 0 00341
                                    CAL ROROW
                                    SLW DATAS
      00143 0 60200 0 00333
      00144 -3 00061 1 00170 ADD14 TXL ADD09+1+1
                              ADD15 CPY L9ROW
      00145 0 70000 0 00340
      00146 -3 00000 0 00151
                                    TXL ADD10
TD
                              ADD12 HTR BEGIN
      00147 0 00000 0 00110
                                                          EOR
      00150 -3 00000 0 00210
                                  TXL ADD11
TD
                              ADD10 CAL LOROW
      00151 -0 50000 0 00340
                                    ANA DATAL
      00152 -0 32000 0 00332
                                    TNZ ADD12
      00153 -0 10000 0 00147
                                   CAL LOROW
      00154 -0 5000 0 00340
      00155 -0 60200 0 00332
                                    ORS DATAL
                                   CPY R9ROW
      00156 0 70000 0 00341
                                    CAL ROROW
      00157 -0 50000 0 00341
                                    ANA DATAZ
      00160 -0 32000 0 00333
                                   TNZ ADD12
      00161 -0 10000 0 00147
                                    CAL ROROW
      00162 -0 50000 0 00341
                                    ORS DATA2
      00163 -0 60200 0 00333
                                  TNX ADD13+1+1
      00164 -2 00001 1 00204
                                    TSX SUB1.2
      00165 0 07400 2 00265
                                    TXL ADD14
                                                          RETURN1
      00166 -3 00000 0 00144
TD.
                                    TXL ADDOS
                                                          RETURN2
      00167 -3 00000 0 00316
TD
      00170 -0 50000 0 00334 ADD09 CAL DATAS
                                    ORA DATA1
      00171 -0 50100 0 00332
      00172 0 60200 0 00334
                                    SLW DATAS
```

```
00173 0 70000 0 00336
                                     CPY DATA5
                                     ANA DATAS
      00174 -0 32000 0 00336
      00175 0 60200 0 00332
                                     SLW DATA1
                                    CAL DATA4
      00176 -0 50000 0 00335
                                    ORA DATA2
      00177 -0 50100 0 00333
                                    SLW DATA4
      00200 0 60200 0 00335
      00201 0 70000 0 00337
                                    CPY DATA6
                                    ANA DATA6
      00202 -0 32000 0 00337
                                     SLW DATA2
      00203 0 60200 0 00333
                              ADD13 TSX SUB1,2
      00204 0 07400 2 00265
                                                           RETURN1
                                     TXL ADD15
      00205 -3 00000 0 00145
TD
                                                           RETURN2
                                    ALS 4
      00206 0 76700 0 00004
      00207 -3 00000 0 00316
                                    TXL ADDO8
TD
                              ADD11 CAL DATA1
      00210 -0 50000 0 00332
                                    SLW L9ROW
      00211 0 60200 0 00340
                                    CAL DATA3
      00212 -0 50000 0 00334
                                    COM
      00213 0 76000 0 00006
                                    ANA DATAS
      00214 -0 32000 0 00336
                                    ANS DATAL
      00215 0 32000 0 00332
                                    CAL DATA2
      00216 -0 50000 0 00333
      00217 0 60200 0 00341
                                    SLW R9ROW
                                    CAL DATA4
      00220 -0 50000 0 00335
                                    COM
      00221 0 76000 0 00006
                                    ANA DATA6
      00222 -0 32000 0 00337
      00223 0 32000 0 00333
                                    ANS DATA2
      00224 0 07400 2 00265
                                    TSX SUB1,2
                                    TXL ADD16
                                                           RETURN1
      00225 -3 00000 0 00233
TD
                                                           RETURN2
      00226 0 60200 0 00331
                                    SLW DATAO
      00227 0 76700 0 00002
                                    ALS 2
                                    ACL DATAO
      00230 0 36100 0 00331
                                    ALS 1
      00231 0 76700 0 00001
                                     TXL ADDO8
      00232 -3 00000 0 00316
TD
      00233 -0 50000 0 00334
                              ADD16 CAL DATA3
                                    SWT 6
      00234 0 76000 0 00166
      00235 0 02000 0 00241
                                     TRA ADD34
      00236 -3 00000 0 00407 ADD32
                                    TXL ADD31
TD
      00237 0 76600 0 00205 ADD33
                                    WTD 5
                                     TRA ADD29
      00240 0 02000 0 00242
                                    WTD 2
      00241 0 76600 0 00202 ADD34
      00242 -0 50100 0 00336 ADD29
                                    ORA DATAS
                                    ORA L9ROW
      00243 -0 50100 0 00340
                                    COM
      00244 0 76000 0 00006
      00245 0 60200 0 00332
                                    SLW DATA1
                                    CAL DATA4
      00246 -0 50000 0 00335
                                    ORA DATA6
      00247 -0 50100 0 00337
      00250 -0 50100 0 00341
                                    ORA R9ROW
      00251 0 76000 0 00006
                                    COM
      00252 0 60200 0 00333
                                     SLW DATA2
                                    TSX SUB1.2
      00253 0 07400 2 00265
                                                           RETURN1
      00254 -3 00000 0 00262
                                    TXL ADD17
TD
                                                           RETURN2
      00255 0 60200 0 00331
                                    SLW DATAO
      00256 0 76700 0 00001
                                    ALS 1
                                    ACL DATAO
      00257 0 36100 0 00331
             0 76700 0 00004
                                     ALS 4
      00260
```

```
TXL ADDOS
      00261 -3 00000 0 00316
TD
      00262 -0 53400 1 00125
                              ADD17 LXD ADD01+1
                                    LXD ADD02.2
      00263 -0 53400 2 00127
                                    TRA 3:4
      00264 0 02000 4 00003
                              SUB1 SXD ADD18,1
      00265 -0 63400 1 00327
                                    SLN 1
      00266 0 76000 0 00141
                                    CAL 1:4
      00267 -0 50000 4 00001
      00270 0 40000 0 00330
                                    ADD CONSI
                                    LDQ DATA1
      00271 0 56000 0 00332
                             ADD22 STA ADD06
            0 62100 0 00317
      00272
                                    STA ADDO8
      00273
            0 62100 0 00316
                                    TXH ADD19,1,1
      00274 3 00001 1 00300
                                                          INDEX=1
      00275 -0 60000 0 00331
                                    STQ DATAO
                                    CAL DATAO
      00276 -0 50000 0 00331
                                    TZE ADD20
      00277 0 10000 0 00322
                             ADD19 LXA CONS1,1
      00300 0 53400 1 00330
                                                          CLEAN ACC
                              ADD21 PXD 12
      00301 -0 75400 0 00014
                                                          1ST IN ACC
                                    LGL 1
      00302 -0 76300 0 00001
                                                          100000
      00303 0 76700 0 00005
                                    ALS 5
                                                          1000001
                                    LGL 1
      00304 -0 76300 0 00001
                                    ALS 5
                                                          100000100000
      00305 0 76700 0 00005
                                                          1000001000001
                                    LGL 1
      00306 -0 76300 0 00001
                                    ALS 5
      00307 0 76700 0 00005
                                    LGL 1
      00310 -0 76300 0 00001
      00311 0 76700 0 00005
                                    ALS 5
      00312 -0 76300 0 00001
                                    LGL 1
                                    ALS 5
      00313 0 76700 0 00005
                                    LGL 1
      00314 -0 76300 0 00001
                                                          1000001000001000001000001000001
      00315 0 02000 2 00002
                                    TRA 2,2
                                                          ADDRESS COMPUTED AT ADD22 IN ADDRESS
                              ADDOS ACL 0,1
           0 36100 1 00000
      00316
                                                          ENTRY2 ADDRESS PREV. COMPUTED AT ADD22
                              ADDO6 SLW 0.1
           0 60200 1 00000
                                    TIX ADD21,1,1
      00320 2 00001 1 00301
                                    LXD ADD18,1
      00321 -0 53400 1 00327
                              ADD20 SLT 1
      00322 -0 76000 0 00141
                                                          OFF
      00323 0 02000 2 00001
                                    TRA 1.2
                                    LDQ DATA2
                                                          SENSE LIGHT ON
      00324 0 56000 0 00333
                                    CAL 194
      00325 -0 50000 4 00001
                                    ADM ADD21
      00326 0 40100 0 00301
                              ADD18 TXL ADD22:0:**
                                                          IR1 STORED IN DECREMENT
      00327 -3 00000 0 00272
                              CONS1 HTR 6
      00330 0 00000 0 00006
            0 00000 0 00000
                              DATAO HTR
      00331
                                                          9L ROW
                              DATA1 HTR
      00332 0 00000 0 00000
                                                          9R ROW
                              DATA2 HTR
      00333
            0 00000 0 00000
             0 00000 0 00000
                              DATA3 HTR
      00334
                              DATA4 HTR
            0 00000 0 00000
      00335
                              DATAS HTR
             0 00000 0 00000
      00336
                              DATA6 HTR
      00337
             0 00000 0 00000
                             L9ROW HTR
      00340
             0 00000 0 00000
                              R9ROW HTR
            0 00000 0 00000
      00341
             0 77200 0 00202 START REW 2
      00342
                                    SLN 0
             0.76000 0 00140
      00343
                             ADD27 RCD 1
      00344
             0 76200 0 00321
            0 07400 4 00113
                                    TSX ADD23,4
      00345
```

HTR RECOR

0 00000 0 00373

```
RETURN3
      00347 -3 00000 0 00355
00350 0 76000 0 00142
                                     TXL ADD24
TD
                                                            RETURN4
                                     SLN 2
                                     LXD ADD25,4
      00351 -0 53400 4 00354
                               ADD26 CPY BLOCK +4
             0 70000 4 00407
      00352
                                     TIX ADD26,4,1
      00353 2 00001 4 00352
                               ADD25 TXL ADD27,0,12
      00354 -3 00014 0 00344
                               ADD24 SLT 2
      00355 -0 76000 0 00142
                                                            OFF
                                     TRA ADD28
      00356
             0 02000 0 00363
                                     SWT 6
      00357
             0 76000 0 00166
                                     TRA ADD30
      00360
             0 02000 0 00414
                                     WEF 5
             0 77000 0 00205
      00361
                                     REW 5
             0 77200 0 00205
      00362
                               ADD28 RTB 1
             0 76200 0 00221
      00363
                                     CPY RECOR
      00364
             0 70000 0 00373
                                     TRA ADD28
             0 02000 0 00363
      00365
                                                            EOF
                                     TRA 4
             0 02000 0 00004
      00366
                                     REW 1
             0 77200 0 00201
      00367
                                     RTB 1
             0 76200 0 00221
      00370
                                     RTB 1
             0 76200 0 00221
      00371
                                     TSX 4,4
      00372
             0 07400 4 00004
                              RECOR HTR
      00373
             0 00000 0 00000
                                     BES 11
                        00407 BLOCK
             0 77200 0 00205 ADD31
                                     REW 5
      00407
                                     CLS ADD32
             0 50200 0 00236
      00410
                                     STO ADD32
             0 60100 0 00236
      00411
                                     CAL DATA3
      00412 -0 50000 0 00334
                                     TRA ADD33
      00413 0 02000 0 00237
                                     WEF 2
             0 77000 0 00202 ADD30
      00414
                                     REW 2
      00415 0 77200 0 00202
      00416 0 02000 0 00363
                                     TRA ADD28
                                     END
                        00000
```

		AS	T							********
								######################################	*** FORTRAN II SECTION SIX ***********************************	F6P00011
						•		PORTRAM 2	RECORD 0003 - CI) TO SAF CONTENSIONS	F6R00012
								CIT TO SAD	CONVERSION	F6R00020
					00210		OPG	126	CONTENSION	F6R00030
		^	E0000	^	00210	CTADT	CLA	ONE		F6R00040
Μ.	00210	Ž	34000	0	00102	SIAKI	CAS	SW2	RECORD 0003 - CIT TO SAP CONVERSION. CONVERSION SW2 EQUAL ZERO, ASSUME SWITCH TWO UP, SW2 EQUAL ONE, ASSUME SWITCH TWO DOWN, EQUAL TWO. TEST SWITCH TWO SW TWO DOWN. SET READ ERROR COUNTER. READ TAPE 4 CPY INTO REC-1, REC-2, END OF FILE ON TAPE 4. IF ERROR. SAVE COUNT OF NO. OF WORDS READ IN. SET XR1=0 SAVE XR1. STORE SL IN DATA2 STORE OP IN DATA3 STORE SA IN DATA4 STORE RA IN DATA5 STORE BLANKS IN E1006,1007,1010,1005.	F6R00050
	00211	ŏ	02000	0	00700		TRA	ADDO1	SW2 EQUAL ZERO, ASSUME SWITCH TWO UP,	F6R00060
	00212	ň	02000	٥	00700		TRA	1.181	SW2 EQUAL ONE. ASSUME SWITCH TWO DOWN.	F6R00070
	00213	ŏ	76000	Ô	00162		SWT	2	EQUAL TWO. TEST SWITCH TWO	F6R00080
	00215	ŏ	02000	٥	00700		TRA	ADD01		F6R00090
	00216	õ	77200	ō	00204	LIB1	REW	4	SW TWO DOWN.	F6R00100
	00217	ŏ	77000	ō	00202		WEF	2		F6R00110
	00220	-0	53400	2	00221		LXD	ADD02.2	SET READ ERROR COUNTER.	F6R00120
	00221	ĭ	00005	ō	00223	ADD02	TXI	ADD03.0.5		F6R00130
	00222	ō	76400	0	00204	ADD05	BST	4	•	F6R00140
	00223	Ō	76200	0	00224	ADD03	RTB	4	READ TAPE 4	F6R00150
	00224	ō	53400	1	00726		LXA	DATA1+1		F6R00160
	00225	Ö	70000	1	01162	ADD04	CPY	RECO3,1	CPY INTO REC-1, REC-2,	F6R00170
	00226	1	00001	1	00225		TXI	ADD04,1,1		F6R00180
	00227	Õ	02000	0	00700		TRA	ADD01	END OF FILE ON TAPE 4.	F6R00190
	00230	0	77100	0	00377		ARS	255		F6R00200
	00231	0	77100	0	00377		ARS	0255	·	F6R00210
	00232	-0	76000	0	00012		RTT			F6R00220
	00233	2	00001	2	00222		TIX	ADD05,2,1	IF ERROR.	F6R00230
	00234	-0	63400	1	00440		SXD	ADD06,1	SAVE COUNT OF NO. OF WORDS READ IN.	F6R00240
	00235	0	53400	1	00677		LXA	ADD07.1	SET XR1=0	F6R00250
	00236	-0	63400	1	00442	IN207	SXD	ADD08+1	SAVE XR1.	F6R00260
	00237	-0	50000	1	01163		CAL	RECOR • 1	STORE SL IN DATA2	F6R00270
	00240	0	60200	Ũ	00775		SLW	DATA2	STORE OP IN DATA3	F6800280
	00241	-0	50000	1	01162		CAL	RECO3.1	STORE OP IN DATA3 STORE SA IN DATA4 STORE RA IN DATA5 STORE BLANKS IN E1006,1007,1010,1005. TEST SYMBOLIC LOCATION. IF ZERO, GO TO ADDO9.	F6K00290
	00242	0	60200	0	00776		SLW	DATA3	CTORE CA TH RATAL	F6R00300
	00243	-0	50000	1	01161		CAL	RECO2.1	STORE SA IN DATA4	F6000310
	00244	0	60200	0	00777		SLW	DATA4	STORE DA IN DATAS	F6000320
	00245	-0	50000	7	01160		CAL	RECOISE	STORE RA IN DATAS	FARRO330
	00246	0	60200	O	01000		2 L W	DATAS		F6R00350
	00247	Ŏ	56000	ō	00710		ETO	FIOOS	STORE RIANKS IN F1006-1007-1010-1005-	F6R00360
	00250	-0	60000	0	01007		STO	E1005	STORE BEARING IN E10009100191010910091	F6R00370
	00251	-0	60000	Ň	01010		STO	E1007		F6R00380
	00252	-0	60000	0	01011		STO	E1007	· · · · · · · · · · · · · · · · · · ·	F6R00390
	00255	-0	50000	۸	01012		CAL	DATA2	TEST SYMBOLIC LOCATION.	F6R00400
	00254	-0	10000	0	00775		TZE	40009	IF 7FRO. GO TO ADDOS.	F6R00410
-	00255	0	74500	٥	00303		IRS	30	NOT ZERO. SEE IF SL(1) EQUAL ZERO.	F6R00420
	00250	3	10000	õ	00303		TZE	E1010 DATA2 ADD09 30 ADD10 DATA7 ADD11 DATA6 ADD12 DATA7	TEST SYMBOLIC LOCATION. IF ZERO, GO TO ADDO9. NOT ZERO. SEE IF SL(1) EQUAL ZERO. SL(1) EQUAL ZERO, GO TO ADD10. SL(1) NOT EQUAL ZERO. SEE IF EQUAL 15. SL(1) NOT EQUAL 15. GO TO ADD11 SL(1) EQUAL 15. PUT BLANKS IN AC AND GO TO ADD12 RESTORE SL(1) IN AC. IF SL(1)=\$, GO TO LIB2	F6R00430
	00251	ő	40200	õ	00722		SUB	DATA7	SL(1) NOT EQUAL ZERO. SEE IF EQUAL 15.	F6R00440
	00261	-0	10000	o	00264		TNZ	ADD11	SL(1) NOT EQUAL 15. GO TO ADD11	F6R00450
	00262	-0	50000	õ	00710		CAL	DATA6	SL(1) EQUAL 15. PUT BLANKS IN AC AND	F6R00460
	00263	ŏ	02000	õ	00306		TRA	ADD12	GO TO ADD12	F6R00470
	00264	ō	40000	ō	00722	ADD11	ADD	DATA7	RESTORE SL(1) IN AC.	F6R00480
	00265	. o	40200	0	00614		900	LIB3		F6R00490
	00266	0	10000	0	00612		TZE	LIB2	IF SL(1)=\$, GO TO LIB2	F6R00500
					00614		ADD	LIB3		F6R00510

00270	0	40200	0	00616		SUB	LIB5	IF SL(1)=(,GO TO LIB6 GO TO ME1 IF SL(1) GREATER THAN 15 (I.E.,ALPHA- SL(1) LESS THAN 15, NOT ZERO, ASSEMBLE SYMBOL. AND GO TO SUB1 (TIV TYPE ENTRY). IFN. ASSEMBLE SYMBOL AND GO TO SUB2. SYMBOLIC LOC EQUAL ZERO. PUT BLANKS IN ACC. STORE ACC. IN E1003. SELECT OP IN MQ. STORE DECREMENT IN E0777. LOAD MQ WITH BLANKS	F6R00520
00271	Õ	10000	0	00617		TZE	LIB6	IF SL(1)=(,GO TO LIB6	F6R00530
00272	0	40000	0	00616		ADD	LIB5		F6R00540
00273	Ō	40200	0	00722		SUB	DATA7		F6R00550
00274	Õ	12000	0	00301		TPL	ME1	GO TO MEI IF SL(1) GREATER THAN 15 (I.E. + ALPHA-	F6R00560
00275	õ	40000	o .	00722		ADD	DATA7		F6R00570
00276	-0	77900	ō	00001		ROL	1	SL(1) LESS THAN 15, NOT ZERO, ASSEMBLE SYMBOL.	F6R00580
00277	ŏ	07400	ĭ	00603		TSX	SUB1 • 1	AND GO TO SUB1 (TIV TYPE ENTRY).	F6R00590
00200	ŏ	02000	ō.	00306		TRA	ADD12		F6R00600
00300	-0	50000	0	00775	ME1	CAL	DATA2	•	F6R00610
00303		02000	Α.	00306	,,,,,	TRA	ADD12		F6R00620
00302	-0	76300	0	00015	ADDIO	I GI	13	IFN. ASSEMBLE SYMBOL AND GO TO SUB2.	F6R00630
00303	-0	07400	1	00654	70010	TSX	SUB2.1		F6R00640
00304	0	74200	•	00054	ADDOO	1.61	36	SYMBOLIC LOC EQUAL ZERO. PUT BLANKS IN ACC.	F6R00650
00305	-0	10300	×	010044	ADD 12	SIW	F1003	STORE ACC. IN E1003.	F6R00660
00200	ŏ	54000	~	01005	111245	100	DATAS	SELECT OP IN MO.	F6R00670
00307	ŏ	50000	Ŏ.	00710	111243	CLS	DATAS		F6R00680
00310	ŏ	76200	ò	00111		LGI	19		F6R00690
00311	-0	16300	Ö	00022		CTO	10 50777	STORE DECREMENT IN FO777.	F6R00700
00312	-0	60000	0	01001		210	DATAS	LOAD MO WITH BLANKS	F6R00710
00313	0	56000	0	00710		LDG	DATAG	EOND MA MILL DEVINE	F6R00720
00314	-0	76300	Ü	00006		LGL	6		F6R00730
00315	0	76700	0	00006		ALS	51004	SYMBOLIC LOC EQUAL ZERO. PUT BLANKS IN ACC. STORE ACC. IN E1003. SELECT OP IN MQ. STORE DECREMENT IN E0777. LOAD MQ WITH BLANKS STORE IN E1004. IS OP EQUAL OCT. OP LESS THAN OCT OP EQUAL OCT. GO TO ADD14. OP GREATER THAN OCT. SEE IF OP=BCD. OP EQUAL BCD. GO TO ADD15. OP NOT BCD OR OCT. SELECT SA IN MQ. SA(1) NOT EQUAL ZERO. GO TO IN301. SA(1) EQUAL ZERO. TEST FOR INTERNAL FORMULA NUMBER TYPE. IF YES, GO TO IN310. SA(1),SA(2),SA(3) EQUAL ZERO. LOAD MQ WITH TEST FOR NOW-ZERO TAG OR RELATIVE ADDRESS. NOT EQUAL ZERO. TEST FOR NON-ZERO DECREMENT. NOT ZERO, GO TO IN320 ZERO. OR A BLANK TO RT-HAND END OF E1004.	F6R00740
00316	0	60100	0	01006		510	E1004	TE OD FOUNT OCT	F6800750
00317	0	34000	0	00707		CAS	DATAY	OD LEGS THAN OCT	F6800760
00320	. 0	02000	0	00325		IKA	ADDIS	OR FOUND OCT CO TO ADDIA.	F6800770
00321	0	02000	0	00566		IKA	AD014	OR CREATER THAN OCT. SEE IE OR-BCD.	F6P00780
00322	0	34000	0	00706		CAS	DATIO	OP GREATER THAN OCT SEE IF OF-BEDS	E600700
00323	0	02000	0	00325		TRA	ADD13	00 TOUR 000 CO TO ADDIE	FARROSSO
00324	0	02000	0	00525		IRA	AUUIS	OP HOT DCD OF OCT	F6P00810
00325	0	56000	0	00777	ADD13	LDQ	DATA4	OF NOT BED OR OCTO	E600020
00326	-0	75400	0	00000		PXD		SELECT SA IN MO.	FARROSEO
0 0327	-0	76300	0	00006		LGL	6	CALLA MOR FOUND TERM CO TO INCOL.	EARAOSAO
00330	-0	10000	0	00343		INZ	10301	SA(I) MUI EQUAL ZEROS GO IO INTERNAL	FADOOSTO
00331	-0	76300	0	00014		LGL	12	SA(I) EQUAL ZERUS (ES) FOR INTERNAL	ECDOOSSO
00332	-0	10000	0	00352		TNZ	IN310	FORMULA NUMBER TYPE IF TEST OU TO INSTU-	E400000
00333	0	56000	0	00710		LDQ	DATA6	SA(1), SA(2), SA(3) EQUAL ZERO, LUAD MU WITH	ECROCOLO
00334	0	50000	0	01000		CLA	DATAS	TEST FOR NOW-ZERO IAG OR RELATIVE ADDRESS.	FARROSOO
00335	-0	10000	0	00510		TNZ	IN446	NOT EQUAL ZERO. GO 10 IN446	FAROLOGO
00336	0	50000	0	01001		CLA	E0777	RA EQUAL ZERO. IEST FOR NON-ZERO DECREMENT.	F6800900
0 0337	-0	10000	0	00362		TNZ	IN320	NOT ZERO, GO TO 1N320	F6800910
00340	-0	50000 60200 02000	0	00715		CAL	DT713	ZERO, OR A BLANK TO RI-HAND END OF E1004.	F6K00920
00341	-0	60200	0	01006		ORS	E1004		F6R00930
00342	0	02000	0	00431		TRA	IN367		F6R00940
00343	0	34000	0	00717	IN301	CAS	DATA8	TEST IF SA(1)=16.	F6R00950
00344	0	02000	0	00355		TRA	IN313	GREATER THAN 16 (TRUE SYMBOL). GO TO IN313.	F6R00960
00345	0	07400	4	00004		TSX	4 • 4	EQUAL IS ERROR.	F6KUU9/U
00346	0	07400	1	00603		TSX	SUB1:1	LESS THAN 16 (TIV ENTRY TYPE). GO TO SUB1.	F6K00980
00347	0	76500	0	00036		LRS	30	TEST IF SA(1)=16. GREATER THAN 16(TRUE SYMBOL). GO TO IN313. EQUAL IS ERROR. LESS THAN 16 (TIV ENTRY TYPE). GO TO SUB1. RETURN FROM SUB1. INTERNAL FORMULA NO. TYPE.	F 6RU0990
00350	-0	77300	0	00001		RQL	1		
00351	0	02000	0	00355		TRA	IN313		F6R01010
00352	0	07400	1	00654	IN310	TSX	SUB2:1	INTERNAL FORMULA NO. TYPE.	F6R01020
00353	-0	75400	0	00000		PXD			F6R01030
00354	-0	76300	0	00006		LGL	6		F6R01040
00355	-0	60200	0	01006	IN313	ORS	E1004		F6R01050

T

0 (0000 0 01000	STQ E1000		F6R01060
00356 -0 60000 0 01002	CAL DT713	•	F6R01070
00357 -0 50000 0 00715	ORS E1000		F6R01080
00360 -0 60200 0 01002	LDQ E1000		F6R01090
00361 0 56000 0 01002	1320 CAL IN313		F6R01100
	TSX 1N403+1		F6R01110
00363 0 07400 1 00445	CLA DATA5	SELECT RELATIVE ADDRESS.	F6R01120
00364 0 50000 0 01000	ARS 18	OLLECT RESILIES	F6R01130
00365 0 77100 0 00022	TZE IN335	RA EQUAL ZERO, GO TO IN335	F6R01140
00366 0 10000 0 00377	LDQ DATA6	RA NOT EQUAL ZERO, LOAD MQ WITH BLANKS AND	F6R01150
00367 0 56000 0 00710	TSX IN422.1	GO TO 1N422	F6R01160
00370 0 07400 1 00464	CLA DATAS	SET ACC. EQUAL RA.	F6R01170
00371 0 50000 0 01000	TPL IN333	IF RA POSITIVE, GO TO IN333.	F6R01180
00372 0 12000 0 00375		IF RA NEGATIVE, SELECT OCTAL 40 (MINUS)	F6R01190
00373 -0 50000 0 00716	CAL DT714	AND GO TO IN334.	F6R01200
00374 0 02000 0 00376	TRA IN334	SELECT OCTAL 20 (PLUS)	F6R01210
****	1333 CAL DATA8	SELECT OCIAL 20 TPEOST	F6R01220
	1334 TSX IN416,1	SET ACC. EQUAL RA. ANA OCTAL 77777	F6R01230
00311 0 30000 0 02000	1335 CLA DATA5	SE! ACC. EQUAL RAS ARA OCIAL IVIII	F6R01240
00400 -0 32000 0 00726	ANA DATA1	15 NOT 2500 CO TO 18244	F6R01250
00401 -0 10000 0 00406	TNZ IN344	IF NOT ZERO, GO TO IN344.	F6R01260
00402 0 50000 0 01001	CLA E0777	ZERO. TEST IF EO777 EQUAL ZERO.	F6R01270
00403 0 10000 0 00425	TZE IN363	IF ZERO, GO TO IN363.	F6R01280
00404 0 56000 0 00713	LDQ DT711	NOT ZERO, LOAD MQ WITH O IN 1ST CHARAC, REST	F6R01290
00405 0 02000 0 00414	TRA IN352	AND GO TO IN 352	F6R01300
	1344 LDQ DT710		F6R01310
00407 0 34000 0 00724	CAS DT722		F6R01320
00410 0 02000 0 00413	TRA IN351		F6R01330
00411 0 02000 0 00413	TRA IN351		F6R01340
00412 0 56000 0 00710	LDQ DATA6	•	F6R01350
00413 0 07400 1 00464 IN	1351 TSX IN422+1		F6R01360
00414 0 50000 0 00714 1	N352 CLA DT712		F6R01370
00415 0 07400 1 00460	TSX IN416,1		F6R01380
00416 0 50000 0 01001	CLA E0777		F6R01390
00417 0 10000 0 00425	TZE IN363		F6R01400
00420 0 77100 0 00022	ARS 18		F6R01410
00421 0 56000 0 00710	LDQ DATA6		F6R01420
00422 0 07400 1 00464	TSX IN422,1		F6R01430
00423 0 50000 0 00714	CLA DT712		F6R01440
00424 0 07400 1 00460	TSX IN416,1		F6R01450
00425 -0 75400 0 00006 IN	N363 PXD 6		F6R01460
00426 0 56000 0 00710	LDQ DATA6		F6R01470
00427 -0 76300 2 00044	LGL 36,2		F6R01480
00430 -0 60200 0 00430 IN	N366 ORS *		F6R01490
00431 0 76600 0 00202 11	N367 WTD 2		F6R01500
00432 0 53400 1 00425	LXA IN363.1		F6R01510
00433 0 70000 1 01013 1	N371 CPY E1011.1		F6R01520
00434 2 00001 1 00433	TIX IN371+1+1		F6R01530
00435 0 76600 0 00333	IOD		F6R01540
00436 -0 53400 1 00442	LXD ADDO8.1		F6R01550
00437 1 00004 1 00440	TXI ADD06+1+4		F6R01560
00440 -3 00440 1 00236 AL	DD06 TXL IN207.1.*		F6R01570
00441 -0 53400 2 00221	LXD ADD02+2	•	
00442 1 00442 0 00223 AD	**ODO8 TXI ADD03		F6R01580
00443 -3 00036 2 00454 IN	1401 TXL IN412,2,30	IF SHIFT LESS THAN OR EQUAL 30, GO TO SELECT	F6R01590

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	00444 -0	50000 0	00461		CAL	IN417	SHIFT GREATER THAN 30. PREPARE TO MODIFY ADDRESS	6R01600
	00445 0	40000 0	00725	IN403				6R01610
	00446 0	62100 0	00461			IN417		6R01620
	• • • • •	62100 0			-	IN366		6R01630
		62100 0				IN410	F. 5.5.4.4.6	6R01640
T		75400 0			PXD		444111 1144	6R01650
		60200 0		IN410			STORE ZERO IN WORD.	6R01660 6R01670
		73400 2				0.2	SET XR2 EQUAL TO ZERO.	6R01680
	00454 -0			IN412			SELECT CHARACTER	
	••••	34000 0				DT713	IS CHARACTER BLANK.	6R01690
		02000 0				IN416	NO 6	6R01710
		02000 1			TRA		YES, RETURN TO PROGRAM	
	00460 0			IN416			NO, SHIFT CHARACTER	6R01720 6R01730
	00461 -0			IN417		*	ŗ	6R01740
T		75400 0			PXD	****	AD HIST YOU SUITET AND SO TO INCOL.	6R01750
		00006 2		****		IN401,2,6	AUJUSI XKZ SHIF! AND GO TO INTOIS	6R01760
	• • • • •	60000 0		IN422			•	6R01770
	••••	63400 1		****		DT772+1	•	6R01780
		76500 0		IN424				6R01790
	00467 -0				PDX	• • •		6R01800
	• • • • •	60200 0		****		E1001		6R01810
		22100 0		IN427				6R01820
		76700 1				0.1		6R01830
		60200 0				E1001		6R01840
		60000 0				E1000 E1000	•	6R01850
	00475 0					IN437		6R01860
	• • • • •	10000 0			CLM		· · · · · · · · · · · · · · · · · · ·	6R01870
	•	76000 0 77772 1				IN427.16		6R01880
		50000 0		IN437				6R01890
	• • • • •	56000 0		111731		E1002		6R01900
		76300 0			LGL		· F	6R01910
		56000 0		IN442		-	. F	6R01920
		76500 1		*****	LRS		F	6R01930
		53400 1				DT772.1	F	6R01940
		02000 1				1,1	F F	6R01950
	00507 0	77100 0	00001	IN446			F	6R01960
		10000 0				1N320	· · · · · · · · · · · · · · · · · · ·	6R01970
		07400 1				IN422+1		6R01980
		50000 0				DATA5	range in the contract of the c	6R01990
		12000 0			TPL	IN455	·	6R02000
	•••	50000 0				DT714	F	6R02010
		02000 0			TRA	IN457	F	6R02020
T		75400 0		IN455		•		6R02030
'		76300 0			LGL	6	F F	6R02040
		60200 0		IN457				6R02050
		50000 0				IN313		6R02060
		07400 1			TSX	IN403.1		6R02070
		02000 0			TRA	IN335		6R02080
		56000 0		ADD15	LDQ	DATA4		6R02090
	•	50000 0			CAL	DATA8		6R02100
	• • • • •	16200 0			TQP	1N470		6R02110
	00530 0	40000 0	00717		ADD	DATA8		6R02120
	00531 0	76500 0	00000		LRS	0		6R02130

					*.		
00500		01006	IN470	nps	E1004	•	F6R02140
00532	0 60200 0 0 76700 0	01000	11410		3	·	F6R02150
				LGL	_		F6R02160
	0 76300 0			ALS	-		F6R02170
*	0 76700 0				-		 F6R02180
	0 76300 0			LGL			F6R02190
	0 76700 0			ALS			F6R02200
00540 -	0 76300 0	00003		LGL			F6R02210
	0 76700 0			ALS	_		F6R02220
00542 -	0 76300 0	00003		LGL	3		
00543	0 76700 0	00003		ALS	3		F6R02230
00544 -	0 76300 0	00003		LGL	3		F6R02240
	0 76700 0			ALS	3		F6R02250
-	76300 0			LGL	3		F6R02260
	0 60200 0				E1005		F6R02270
	0 76700 0			ALS			F6R02280
	0 76300 0			LGL			F6R02290
				ALS	_		F6R02300
	0 76700 0			LGL	-	•	F6R02310
	76300 0						F6R02320
••	76700 0			ALS			F6R02330
	76300 0			LGL			F6R02340
	0 76700 0			ALS			F6R02350
•	76300 0			LGL	-		F6R02360
• • • • •	76700 0			ALS			F6R02370
	0 76300 0			LGL	_		F6R02380
	0 76700 0			ALS			F6R02390
00563 ~	0 76300 0	00003		LGL			
00564	0 60200 0	01010			E1006		F6R02400
00565	0 02000 0	00431		TRA	IN367		F6R)2410
00566	0 50000 0	00777	ADD14	CLA	DATA4		F6R02420
00567	0 40200 0	00721		SUB	DT717		F6R02430
	0 10000 0			TNZ	IN532	·	F6R02440
	0 50000 0			CAL	DAT10		F6R02450
	0 60200 0				E1004		F6R02460
	0 02000 0			TRA	ADD15		F6R02470
	50000 0		IN532				F6R02480
	0 60200 0				E1004	•	F6R02490
	0 50000 0				DATA4		F6R02500
	0 60200 0				E1005		F6R02510
•••	0 50000 0				DATA6		F6R02520
• • • •	0 60200 0				E1006		F6R02530
	0 02000 0				IN367		F6R02540
		-	SUB1		DT703,1	SAVE XR1 FOR RETURN	F6R02550
	0 63400 1		3081		0,4	STORE CHARACTER IN XR4	F6R02560
•	0 73400 4	_			DATA7	IS CHARACTER *•	F6R02570
	0 40200 0				IN550	NO, GO TO IN 550.	F6R02580
	0 10000 0					YES. SELECT *.	F6R02590
-	0 50000 0				DT716	IOAD MO WITH BLANKS.	F6R02600
••••	0 56000 0				DATA6	SAVE XR1 FOR RETURN STORE CHARACTER IN XR4 IS CHARACTER *• NO, GO TO IN 550. YES, SELECT *• LOAD MQ WITH BLANKS. GO TO IN 313.	F6R02610
	0 02000 0				IN313	GO TO IN 313.	F6R02620
•••	0 02000 0		LIB2		RPCH1		F6R02630
00613	0 02000 0	00306			ADD12		F6R02640
00614	0000000000)53	LIB3	BCD	100000\$	•	
00615	5360606060	060	LIB4	BCD	1\$		F6R02650
00616	000000000	74	LIB5	BCD	1000000		F6R02660
	0 50000 0	00775	LIB6	CAL	DATA2		F6R02670
					٠,		 ٠.

00620	0	02000	0	00306		TRA	ADD12		SELECT APPROPRIATE NUMBERIC OR ALPHABETIC	F6R02680 F6R02690
00621	-0	50000	4	00772	10550	CAL	D1770+4		SELECT APPROPRIATE NUMBERIC OR ALPHABETIC CHARACTER. FOLLOWED BY LEFT PARENTHESIS AND SHIFT INTO PROPER POSITION. TAG BITS INTO ACC. ADDRESS TAG BITS EQUAL ZERO. NO. GO TO IN565 YES. IF FINISHED WITH WORD. TEST ADDRESS BITS ADDRESS BITS ZERO. ADDRESS BITS ZERO. SELECT CHARACTER. SHIFT INTO PROPER POSITION. ADJUST SHIFT.	F6R02700
00622	0.	76700	0	00006		ALS	6.		CHARACIERO ENLLOWED DV LEFT DADENTHECIC	F6R02710
00623	-0	50100	0	00773		OKA	01111		AND CHIET INTO PROPER POSITION.	F6R02720
00624	0	76700	0	00030		ALS	24 51000		WAR BUILL INTO LUCKER LOST LIGHT	F6R02730
00625	.0	60200	0	01002		SLW	E1000			F6R02740
00626	0	53400	3	00636		LXA	1N202+3			F6R02750
00627	-0	77300	0	00014		KUL	12			F6P02760
00630	-0	75400	0	00000		PXU	0		TAC BITE INTO ACC. ADDDESS	F6P02770
00631	-0	76300	0	00003		LGL	3		TAG DITS INTO ACCO ADDRESS	F6R02780
00632	-0	10000	0	00636		INZ	1N202		VEC. TE ETNICHED WITH WORD. GO TO IN 575	F6R02790
00633	-2	00001	1	00646	11002	INX	INDIDATAT		NOT EINICHED WITH WORDS TEST ADDRESS RITS	F6R02800
00634	-0	76300	0	00005		TZE	7 1 1 5 4 2		ADDRES RITS 7FDO.	F6R02810
00635	. 0	10000	0	00633	141565	DAY	1N202		ADDRESS BITS NOT 7FRO.	F6R02820
00636	. 0	73400	4	00004	1 1 202	CAL	414 DT770-4		CELECT CHADACTED.	F6R02830
00637	-0	50000	4	00/12		TNY	U1.11094		SECECI CHANACIENT	F6R02840
00640	-2	00001	. 1	00047		TIMA	142101111		SHIFT INTO PROPER POSITION.	F6R02850
00641	0	16100	2	00026		ALS	£1000		5/11 1 1410 PROFER 1 551115/16	F6R02860
00642	-0	60200	Ŏ	01002		DVD	FIOOD			F6R02870
00643	-0	75400	0	00000		LGI	E.			F6R02880
00644	-0	76300	Ü	00005		TYI	IN565.2.6		ADJUST SHIFT.	F6R02890
00645	Ţ	50000	~	00000	TN575	CVI	DT713			F6R02900
00646	-0	54000	0	00710	18575	LDO	DATAS			F6R02910
00047		76300	2	00110	111370	LGL	22.2			F6R02920
00.650	-0	50100	~	010020		ORA	F1000			F6R02930
00651	-0	53400	1	01002		LXD	DT703•1			F6R02940
00652	-0	02000	1	00001		TRA	1.1		·	F6R02950
00654	ŏ	60100	ô	01002	SUB2	STO	E1000			F6R02960
00655	-0	76300	ō	00010		LGL	8		•	F6R02970
00656	-0	75400	ō	00000		PXD	0			F6R02980
00657	ŏ	76500	Õ	00035		LRS	29			F6R02990
00660	ō	22100	Ō	00723		DVP	DT721		IF SUBSIDIARY NO. IS ZERO, SELECT A BLANK.	F6R03000
00661	-0	10000	0	00663		TNZ	IN612			F6R03010
00662	-0	50000	0	00715		CAL	DT713		IF SUBSIDIARY NO. IS ZERO, SELECT A BLANK.	F6R03020
00663	0	60200	0	01004	IN612	SLW	E1002			F6R03030
00664	-0	76300	0	00044		LGL	36			F6R03040
00665	-0	63400	1	00774		SXD	DT772+1			F6R03050
00666	, O	73400	1	00000		PAX	0.1			F6R03060
00667	-0	50000	1	00760		CAL	IN756 • 1		SELECT ALPHABETIC CHARACTER.	F6R03070
00670	0	76700	0	00006	: .	ALS	6 "			F6R03080
00671	-0	50100	0	01004		ORA	E1002	£		F6R03090
00672	0	56000	Ç	00710		LDQ	DATA6			F6R03100
00673	-0	76300	0	00030	5.4	LGL	24			F6R03110
00674	0	60200	0	01004		SLW	E1002			F6R03120 F6R03130
00675	0	50000	0	01002		CLA	E1000			F6R03140
00676	0	02000	0	00466	40007	IRA.	18424			F6R03150
00677	0	00000	0	00000	ADD07	HIK	0		·	F6R03160
00700	0	77000	0	00202	ADD01	WEF	2			F6R03170
00701	0	77200	0	00204		KEW	4			F6R03180
00702	0	7/200	Ď.	00202		スロボロ	1		SELECT ALPHABETIC CHARACTER•	F6R03190
00703	Õ	76200	0	00221		TDA	4			F6R03200
00704	Ō	02000	0	00004	DT 702	LTD	0			F6R03210
00705	0	00000	U	00000	01703	nik	v			

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00706	-204623636000	DATIO	OCT 6	04623636000					F6R03220
	-202223246000			02223246000					F6R03230
	-206060606060			06060606060					F6R03240
		DT707		36060606060					F6R03250
	+336060606060								F6R03260
•	-236060606060			36060606060		•			F6R03270
	+006060606060			06060606060					F6R03280
00714	+00000000073		OCT 7						F6R03290
00715	+000000000060		OCT 6						F6R03300
00716	+000000000040	DT714	OCT 4	·O					
00717	+000000000020	DATA8	OCT 2	0					F6R03310
	+000000000054	DT716	OCT 5	4					F6R03320
	-37777777777	DT717	OCT 7	77777777777					F6R03330
	+000000000017		OCT 1						F6R03340
	+00000000012		OCT 1						F6R03350
		DT722							F6R03360
•	+000000000005					•			F6R03370
	+000000000001		OCT 1					٠,	F6R03380
	+000000077777		OCT 7						F6R03390
	+000000000071	01725	OCT 7						F6R03400
	+000000000070		OCT 7	-					F6R03410
00731	+000000000067		OCT 6	-					F6R03420
00732	+000000000066	*	OCT 6						F6R03430
00733	+000000000065		OCT 6	5	•				
00734	+000000000064		OCT 6	4					F6R03440
00735	+000000000063		OCT 6	3					F6R03450
	+000000000062		OCT 6	2					F6R03460
	+000000000051	DT735	OCT 5	1					F6R03470
	+000000000000			0.					F6R03480
	+000000000007		OCT 4	-					F6R03490
			OCT 4						F6R03500
	+000000000046		OCT 4				•		F6R03510
•••	+000000000045		OCT 4	7					F6R03520
• • • •	+000000000044		OCT 4						F6R03530
	+000000000043	*		_					F6R03540
	+000000000042		OCT 4		•				F6R03550
-	+000000000041		OCT 4						F6R03560
	+000000000031		OCT 3	-					F6R03570
	+000000000030		: -	0					F6R03580
	+00000000027	•	OCT 2						F6R03590
00753	+000000000026		OCT 2	_					
00754	+000000000025		OCT 2						F6R03600
00755	+000000000024		OCT 2	4					F6R03610
00756	+000000000023		OCT 2	3					F6R03620
00757	+000000000022		OCT 2	2					F6R03630
00760	+000000000021	IN756	OCT 2	1					F6R03640
•	+000000000011		OCT 1	1					F6R03650
•	+000000000010		OCT 1						F6R03660
•••	+0000000000007		OCT 7						F6R03670
	+000000000006	*	OCT 6						F6R03680
••••	+000000000005		OCT 5			.*			F6R03690
• • • • •	+000000000000		OCT 4						F6R03700
			OCT 3						F6R03710
	+000000000003		OCT 2						F6R03720
	+000000000002								F6R03730
	+000000000001	07770	OCT 1						F6R03740
	+00000000000		OCT O						F6R03750
00773	+000000000034	D1771	OCT 3	4	4				. 3

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0 00000 0 00000
                        DT772 HTR 0
      0 00000 0 00000
                        DATA2 HTR 0
00775
00776
      0 00000 0 00000
                        DATA3 HTR 0
                        DATA4 HTR 0
      0 00000 0 00000
00777
01000
      0 00000 0 00000
                        DATAS HTR O
      0 00000 0 00000
                        E0777 HTR 0
01001
                        E1000 HTR 0
61002
      0 00000 0 00000
                        E1001 HTR 0
      0 00000 0 00000
01003
      0 00000 0 00000
                        E1002 HTR 0
01004
      0 00000 0 00000
                        E1003 HTR 0
01005
      0 00000 0 00000
                        E1004 HTR 0
01006
                        E1005 HTR 0
01007
      0 00000 0 00000
01010 0 00000 0 00000
                        E1006 HTR 0
01011 0 00000 0 00000
                        E1007 HTR 0
01012 0 00000 0 00000
                        E1010 HTR 0
      0 00000 0 00000
                        E1011 HTR 0
01013
      0 00000 0 00000
                              HTR 0
01014
      0 00000 0 00000
                              HTR 0
01015
                              HTR 0
      0 00000 0 00000
01016
      0 00000 0 00000
                        E1015 HTR 0
01017
                              BES 100
                        REC
                 01164
      0 76300 0 00006
                        RPCH1 LLS 6
01164
01165 0 40200 0 00614
                              SUB LIB3
                              TZE LIB2A
01166 0 10000 0 01171
                              CAL LIB4
                                                SINGLE DOLLAR SIGN
01167 -0 50000 0 00615
                              TRA ADD12
01170 0 02000 0 00306
                                                 DOUBLE DOLLAR SIGN.
                        LIB2A CAL DOL2
01171 -0 50000 0 01173
                              TRA ADD12
01172 0 02000 0 00306
                        DOL2 BCD 1$$
01173 535360606060
                        RECO1 SYN REC-4
                 01160
                 01161
                        RECO2 SYN REC-3
                 01162
                        RECO3 SYN REC-2
                        RECOR SYN REC-1
                 01163
                              END
                 00000
                       OSTART 00210,00210
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F6R03760 F6R03770 F6R03780 F6R03790 F6R03800 F6R03810 F6R03820 F6R03830 F6R03840 F6R03850 F6R03860 F6R03870 F6R03880 F6R03890 F6R03900 F6R03910 F6R03920 F6R03930 F6R03940 F6R03950 F6R03960 F6R03961 F6R03962 F6R03963 F6R03964 F6R03965 F6R03966 F6R03967 F6R03968 F6R03970 F6R03980 F6R03990 F6R04000 F6R04010

00266 -3 00000 0 00242

TXL 1113,0,0

F6S00510

				·	,
	00267 0 50000 4 00001	I143 (CLA 1,4	SUBSTITUTE CODING.	F6500520
	00270 0 62200 0 00432		STD 1302		F6500530
	00271 0 77100 0 00022		ARS 18		F6S00540
	00272 0 40000 0 00432	,	ADD 1302		F6S00550
	00273 0 62100 0 00305	9	STA 1161		F6S00560
	00274 0 62100 0 00341	5	STA 1211		F6S00570
	00275 0 40200 4 00001	5	SUB 1:4		F6S00580
	00276 -0 63400 4 00432	\$	SXD 1302,4		F6S00590
	00277 0 73400 4 00000	F	PAX 0+4		F6S00600
	00300 -0 63400 4 00301	\$	XD 1155•4		F6S00610
	00301 3 00301 0 00000	1155 1	TXH 0,0,*		F6S00620
	00302 0 76600 0 00361	¥	VPR :	SELECT PRINTER	F6S00630
	00303 0 50000 0 00431		LA 1301	FIND LAST NON-BLANK GROUP.	F6S00640
	00304 -0 53400 4 00354	ι	.XD 1224,4		F6S00650
	00305 0 34000 4 00305	1161 (AS *•4		F6S00660
	00306 1 77777 4 00311		TXI I165•4•-1		F6S00670
	00307 1 00001 4 00305	1163 1	TXI I161,4,1		F6S00680
	00310 1 77777 4 00311	1	TXI I165•4•-1		F6S00690
	00311 -0 63400 4 00360	1165	SXD 1230•4	STORE END TEST.	F6S00700
	00312 -0 63400 4 00372	\$	XD 1242•4		F6S00710
	00313 -0 63400 4 00316		SXD I172,4		F6S00720
	00314 -0 63400 4 00421	5	SXD 1271•4		F6S00730
	00315 -0 53400 4 00301	L	.XD I155•4		F6500740
D	00316 -2 00000 4 00322	1172	INX I176•4		F6S00750
	00317 -3 00014 4 00321	1	TXL 1175,4,12	:	F6S00760
	00320 0 76000 0 00370		SPR 8	FIRST CYCLE.	F6S00770
	00321 -0 53400 4 00301		XD 1155•4	INITIALIZE GROUP COUNT.	F6S00780
	00322 0 53400 2 00333		XA 1203•2	INITIALIZE LEFT SETUP.	F6S00790
	00323 -0 53400 1 00375	L	XD 1245•1	•	F6S00800
	00324 0 50000 0 00162		LA ONE	•	F6500810
	00325 0 34000 0 00202		CAS SW4		F6S00820
	00326 0 02000 0 00331		TRA 1201		F6S00830
	00327 0 02000 0 00332	-	TRA LIB5		F6S00840
	00330 0 76000 0 00164	_	SWT 4		F6S00850 F6S00860
	00331 -3 00331 0 00333		TXL 1203.0.*	•	F6S00870
	00332 0 76100 0 00000		10P		F6S00870
T	00333 -0 75400 0 00000		PXD	A. T. A.	F6S00880
	00334 0 60200 1 00524		SLW D41+1	CLEAR CARD IMAGE.	F6500900
	00335 0 60200 1 00504		SLW D21+1		F6S00910
.,	00336 2 00001 1 00334		TIX I204+1+1	**************************************	F6S00920
	00337 -0 50000 0 00433		AL 1303	INITIALIZE COLUMN INDICATOR.	
	00340 0 60200 0 00000		SLW O		F6S00930
	00341 0 56000 4 00341		DQ *•4	OBTAIN GROUP.	F6S00940
	00342 -0 63400 4 00331		SXD 1201,4	STORE GROUP COUNT.	F6S00950
	00343 0 53400 4 00345	-	XA 1215•4	SET CHARACTER COUNT.	F6S00960 F6S00970
T	00344 -0 75400 0 00000		PXD		F6S00910
	00345 -0 76300 0 00006		.GL 6		F6500990
	00346 0 73400 1 00000		PAX 0+1	DOCETTON COLUMN 1400161700	
	00347 -0 50000 0 00000		CAL O	POSITION COLUMN INDICATOR.	F6S01000
	00350 0 77100 4 00006		ARS 6,4	TECT FOR RIGHT	F6S01010 F6S01020
	00351 2 00020 1 00375		IX 1245,1,16	TEST FOR DIGIT.	
	00352 3 00017 1 00400		XH 1250.1.15	TEST FOR Y-Z ONE	F6S01030
	00353 -0 60200 3 00521		ORS D36.3	STORE DIGIT.	F6S01040 F6S01050
	00354 2 00001 4 00344	1224 1	TIX 1214,4,1	COUNT CHARACTERS.	10201020

				CHIET AND TEST COLUMN	F6S01060
	00355 0 77100 0 00001	1225	ARS 1	SHIFT AND TEST CULUMNA	F6S01070
	00356 -0 53400 4 00331		LXD 1201+4	RESTURE GROUP COUNTS	F6501080
	00357 1 77777 4 00360		TXI I230,4,-1	COUNT GROUPS.	F6501090
D	00360 -3 00000 4 00362	1230	TXL 1232,4	TEST FOR LAST NON-BLANK GROUP.	F4601100
•	00361 -0 10000 0 00340		TNZ 1210	TEST FOR END OF ROW.	F6S01100
	00362 -0 50000 2 00506	1232	CAL D23,2	FORM TRUE 8,4	F6S01110
	00363 -0 60200 2 00511		ORS D26,2	AND 3 ROWS AND	F6S01120
	00364 -0 60200 2 00516		ORS D33,2	MOVE 8,4 AND 8,3	F6S01130
	00365 0 60200 2 00507		SLW D24,2	ROWS.	F6S01140
:	00366 -0 50000 2 00505		CAL D22,2	SHIFT AND TEST COLUMN. RESTORE GROUP COUNT. COUNT GROUPS. TEST FOR LAST NON-BLANK GROUP. TEST FOR END OF ROW. FORM TRUE 8,4 AND 3 ROWS AND MOVE 8,4 AND 8,3 ROWS.	F6S01150
	00367 -0 60200 2 00511				F6S01160
	00370 -0 60200 2 00515		ORS D32+2		F6S01170
	00370 -0 60200 2 00313		SLW D23.2		F6S01180
	00371 0 60200 2 00506	1242	TXL 1265:4	TEST FOR FND.	F6S01190
D	00372 -3 00000 4 00415	I 242	TVI 126514	TECT FOR DIGHT HALF.	F6S01200
	00373 3 00017 2 00415		TXH 1265,2,15	TAITTALTSE DIGUT HALF.	F6S01210
	00374 1 00020 2 00337		TXI 1207,2,16	TECT FOR 14 (CU/22	F6501220
	00375 2 00020 1 00403	1245	TIX 1253,1,16	1EST FOR 10/CH/32	F6S01230
	00376 3 00017 1 00406		TXH 1256,1,15	TEST FOR X-ZONE	F6S01240
	00377 -0 60200 3 00521		ORS D36,3	STORE DIGIT.	F6S01250
	00400 -0 60200 2 00523	1250	ORS D40,2	STORE Y-ZONE.	F4 C0 1 24 O
	00401 2 00001 4 00344		TIX I214,4,1	COUNT CHARACTERS.	F6S01260
TD	00402 -3 00000 0 00355	1252	TXL 1225	OBTAIN NEXT GROUP.	F6S01270
	00403 2 00020 1 00411	1253	TIX 1261,1,16	TEST FOR 32/CH/48.	F6S01280
	60404 3 00017 1 00354		TXH 1224,1,15	TEST FOR BLANK.	F6S01290
	00405 -0 60200 3 00521		ORS D36,3	STORE DIGIT.	F6S01300
•	00406 -0 60200 2 00522	1256	ORS D37.2	STORE X-ZONE.	F6S01310
	00407 2 00001 4 00344		TIX 1214,4,1	COUNT CHARACTERS.	F6S01320
	00410 -3 00000 0 00355	1260	TXL 1225	OBTAIN NEXT GROUP.	F6S01330
TD.		1261	ORS D36+2	STORE 0-ZONE	F6S01340
	00411 -0 60200 2 00521	1201	ORS D36+3	STORE DIGITA	F6S01350
	00412 -0 60200 3 00521		TIX 1214,4,1	COUNT CHARACTERS.	F6S01360
	00413 2 00001 4 00344		TXL 1225	COOK! CHARACTERO	F6S01370
TD	00414 -3 00000 0 00355	* 0 / 5	IXL 1225	CORY LOOP.	F6S01380
	00415 -0 53400 1 00430	1265	LXD 1300 • 1	CARD IMAGE CORIES.	F6S01390
	00416 0 70000 1 00524	1260	CPY D41,1	CARD IMAGE COFILST	F6S01400
	00417 0 70000 1 00504		CPY D21.1	COUNT CODIES	F6S01410
	00420 2 00001 1 00416		TIX 1266,1,1	COUNT COPIES.	F6S01420
D	00421 3 00000 4 00426	1271	TXH 1276,4	IEST FOR SECOND CTCLES	F6S01430
	00422 -0 53400 1 00402		LXD 1252.1	NO RELOAD INDEX REGISTERS	F6S01440
	00423 -0 53400 2 00410		LXD 1260+2	AND RETURN.	F6S01450
	00424 -0 53400 4 00432		LXD 1302,4		F6501450
	00425 0 02000 4 00002		TRA 2,4		F6S01460
	00426 0 76600 0 00361	1276	WPR	SELECT PRINTER AGAIN.	F6S01470
	00427 0 76000 0 00371		SPR 9	SECOND CYCLE.	F6S01480
	00430 -3 00014 0 00322	1300	TXL 1176,0,12	CONVERT REST OF LINE	F6S01490
	00431 606060606060	1301	BCD 1		. F6S01500
	00432 0 00000 0 00001	1302	HTR 1		F6S01510
	00433 -0 00000 0 00000	1303	MZE	TEST FOR END. TEST FOR RIGHT HALF. INITIALIZE RIGHT HALF. TEST FOR 16/CH/32 TEST FOR X-ZONE STORE DIGIT. STORE Y-ZONE. COUNT CHARACTERS. OBTAIN NEXT GROUP. TEST FOR 32/CH/48. TEST FOR BLANK. STORE DIGIT. STORE X-ZONE. COUNT CHARACTERS. OBTAIN NEXT GROUP. STORE O-ZONE. STORE DIGIT. COUNT CHARACTERS. COPY LOOP. CARD IMAGE COPIES. COUNT COPIES. TEST FOR SECOND CYCLE. NO. RELOAD INDEX REGISTERS AND RETURN. SELECT PRINTER AGAIN. SECOND CYCLE. CONVERT REST OF LINE	F6S01520
	00504		BES 40		
		D21	HTR O		F6\$01540
		D21	HTR O		F6S01550
	00505 0 00000 0 00000				F6S01560
	00506 0 00000 0 00000	D23	HTR O	•	F6S01570
	00507 0 00000 0 00000	D24	HTR O		F6S01580
	00510 0 00000 0 00000	D25	HTR 0		F6S01590
	00511 0 00000 0 00000	D26	HTR 0		, 0301370

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00512	0	0.0000	٥	00000	D27	HTR	0
00513		00000			D30	HTR	0
00514		00000			D31	HTR	Q
00515		00000			D32	HTR	0
00516		00000			D33	HTR	0
00517		00000			D34	HTR	0
00520		00000			D35	HTR	0
00521	-	00000	_		D36	HTR	0
00522	_	00000			D37	HTR	Õ
00522		00000		00000	D40	HTR	0
00524	ŏ			00000	D41	HTR	ŏ
00524	. •	OOODO,	. •	00551	065	BES	
7857		, h	٠,	00000	, 505	END	
J. 7. 7. 7.				A0000			

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F6S01600 F6S01610 F6S01620 F6S01630 F6S01650 F6S01660 F6S01660 F6S01670 F6S01690 F6S01700 F6S01710 F6S01720

		DEN	*****	******	FORTRA	AN II	SECTION SIX	**************************************	*E(T00010
		KEF	*****						F6T00011
							FORTRAN 2	2660DD 007 - TAVE 44/ (U.2404	F6T00011 F6T00012
							• • • • • • • • • • • • • • • • • • • •		L0100017
				00161	ZERO	EQU	113		•
				00162	ONE	EQU	114		
				00177	SW1	EQU	127		
			•	00200	SW2	EQU	128		F6T00020
							DUMP TAPE2 ON	NTO TAPES AND TAPES ONTO	F6T00030
							TAPET IF BATC	CH COMPILING	F6T00040
				00210		ORG	136		F6T00050
	00210	0	77200 0	00202		REW	2	REWIND TAPES TWO AND THREE.	F6T00060
			77200 0			REW	3		F6T00070
			53400 1			LXD	ZERO:1	A SEE 15 DATCH COMPILINGS	
	00213	0	76000 0	00166		SWT	6	TEST SENSE SWITCH 6 TO SEE IF BATCH COMPILING.	F6T00090
	00214		02000 0			TRA	FINI	UP. DO NOT DUMP TAPES BUT GO TO FINI.	F6T00100
	•		76000 0		A11	RTT			F6T00110
	00216	0	76100 0	00000		NOP			F6T00120
			53400 4		A6	LXD	SEVEN.4	SET READ ERROR COUNTER.	F6T00130
				00161	A2	LXD	ZERO + 2	THE THE	F6T00140
	00221		76200 0			RTD	2	SET READ ERROR COUNTER. READ A RECORD OF TAPE TWO.	F6T00150
	00222		70000 2		Al		REC-1+2		F6T00160
	00223		00001 2				A1,2,1		F6100170
	00224		02000 0			TRA		EOF	F6T00180
	00225		77100 0			ARS			F6100190
	00226		77100 0				255		F6T00200
	00227		76000 0			RTT	-5005	EDDAD	F6T00210
	00230		02000 0		•		ERROR	ERROR	F6100220
•	00231		77777 2				NEXT2+2+-1	SAVE WORD COUNT OF RECORD TO USE WHEN WRITING.	F6T00230
			63400 2		NEXT2			ONTO TAPE6	, 0100240
-			53400 2				ZERO • 2	WRITE RECORD JUST READ ONTO TAPE SIX	F6T00250
	00234	_	76600 0			KID	REC-1+2	Will E Weeping Cook	F6100260
	00235		70000 2		A3		A4+2+1		F6700270
	00236		00001 2		A4		A3,2,*		F6100280
	00237		00237 2 76600 0		~	TOD			F6100290
	00240		02000 0				A11	GO READ NEXT RECORD FROM TAPE TWO.	F6T00300
ŀ	00241		00005 0		SEVEN		0.0.5		F6T00310 F6T00320
	00242		76400 0		ERROR	BST		READ ERROR PROCEDURE.	F6100320
	00244		00001 4			TIX	A2+4+1		F6100340
	00245		07400 4				414		F6T00350
	00246		00000 0		ER	HTR	ER	THE THE THE THE THE THE THE THE	
	00247	•	77000 0		EOF	WEF	6	AT END OF FILE ON TAPE TWO, WRITE END OF FILE	F6100370
	00250		00001 1			TXI	A5+1+1		F6T00371
	••••			1.0				ON TAPE SIX. TWO FILES DONE. YES. GO TEST SWITCH TWO.	F6T00380
	00251	. 3	00001 1	00324	A 5		TEST2+1+1		F6100390
٠.	00252		76200 0	•		RTD	- ·	NO NO	F6T00400
	00253		02000 0			TRA		TECT CENCE SWITCH ONF.	F6T00410
•	00254		50000 0		TAPE7			TEST SENSE SWITCH ONE.	F6T00420
	00255		34000 0				SW1		F6T00430
	00256	_	02000 0				E0F3+1		F6100440
	00257	_	02000 0			TRA			F6T00450
	00260		76000 0			SWT			F6T00460
	00261	. 0	02000 0	00314	., .	, FKA	EOF3+1		

00262 -0 53400 4 00	242 A7 LXD	SEVEN.4	DOWN. SET READ ERROR COUNTER. ONTO TAPE? READ A RECORD FROM TAPE THREE END OF FILE. END OF RECORD. ERROR.	F6100470
00263 -0 53400 2 00	161 A12 LXD	ZERO+2	ONTO TAPE!	F6100480 F6100490
00264 0 76200 0 00		3	READ A RECORD FROM TAPE THREE	F6T00500
00265 0 70000 2 01		REC-1,2		F6T00510
00266 1 00001 2 00		A8,2,1	540 OF 54.5	F6T00520
00267 0 02000 0 00		EOF3	END OF FILE.	F6T00530
00270 0 77100 0 00		255	END OF RECORD.	F6T00540
00271 0 77100 0 00	• • • • • • • • • • • • • • • • • • • •	255		F6100550
00272 -0 76000 0 00	012 RTT			F6T00560
00273 0 02000 0 00		ERR3	ERROR.	F6100570
00274 1 77777 2 00		NEXT1,2,-1	SAVE WORD COUNT OF RECORD.	F6T00580
00275 -0 63400 2 00	302 NEXT1 SXD	A10,2	SAVE WORD COUNT OF RECORDS	F6T00590
00276 -0 53400 2 00		ZERO+2	UDITE THE DECORD ONTO TARE SEVEN.	F6T00600
00277 0 76600 0 00			WRITE THE RECORD ONTO TAPE SEVEN.	F6T00610
00300 0 70000 2 01		REC-1+2		F6T00620
00301 1 00001 2 00		A10+2+1	TECT THE OF RECORD	F6T00630
00302 -3 00302 2 00		A9 • 2 • *	TEST END OF RECORD.	F6T00640
00303 0 76600 0 00				F6T00650
00304 -0 76000 0 00				F6T00660
00305 0 76100 0 00			CO DEAD WENT DECORD	F6100670
00306 0 02000 0 00		A7	GO READ NEXT RECORDS	F6T00680
00307 0 76400 0 00		3	DELE EDDOS DECEENIDE	F6T00690
00310 2 00001 4 00		A12,4,1	READ ERROR PROCEDURE.	F6T00700
00311 0 07400 4 00		494		F6T00710
00312 0 00000 0 00		ERR4	AT FOE ON 2. MOITE FOE ON 7.	F6T00720
00313 0 77000 0 00		7	AT EUP ON 35 WRITE EUP ON 10	F6T00721
00314 0 76200 0 00		<u>.</u>		F6T00722
00315 0 76200 0 00		Ţ		F6T00723
00316 0 76200 0 00		1	DEWINDS TAPES 2.3. AND 4 AND	F6T00730
00317 0 77200 0 00		2	PETHINS TO LOADER.	F6T00740
00320 0 77200 0 00		3	RETURNS TO ECADERY	F6T00750
00321 0 77200 0 00		*		F6T00760
00322 0 76200 0 00		4	•	F6T00770
00323 0 02000 0 00		A ONE	AFTER 2ND FILE FROM 2 TO 6.	F6T00780
00324 0 50000 0 00		ONE	TEST SENSE SWITCH 2.	F6T00790
00325 0 34000 0 00		SW2 TAPE7	TEST END OF RECORD. GO READ NEXT RECORD. READ ERROR PROCEDURE. AT EOF ON 3, WRITE EOF ON 7. REWINDS TAPES 2,3, AND 4 AND RETURNS TO LOADER, AFTER 2ND FILE FROM 2 TO 6, TEST SENSE SWITCH 2.	F6T00800
00326 0 02000 0 00	254 IKA	WT3		F6T00810
00327 0 02000 0 00				F6T00820
00330 0 76000 0 00		TAPE7	UP. GO TEST SWITCH 1.	F6T00830
00331 0 02000 0 00		A5+1	DOWN. RESET INDEX REGISTER 1 TO 1.	F6T00840
00332 -0 53400 1 00		WT3-1	CHANGE AS TRANSFER ADDRESS TO TAPET.	F6T00850
00333 0 50000 0 00			CHUINGE WY INVITED TO THE ELE	F6T00860
00334 0 62100 0 00		A5	AND GO READ FINAL FILE.	F6T00870
00335 0 02000 0 00		A6	NUMBER OF STREET	F6T00880
		40 500		F6T00890
				F6T00900
00	000 END			

		RE	SHEC	F٩	SFUL C	OMPILAT	ION	RECORD F1SC0010	
		1161			.,, 02			SUCCESSFUL COMPILATION RECORD	F1SC0010
								CONTROL IS RETURNED TO THIS RECORD AT THE COMPLETION OF	A F1SC0020
								SINGLE PROBLEM COMPILATION, OR AT THE END OF BATCH	F1SC0030
		:						COMPILATION. TAPE 1 IS REWOUND AND A LOAD BUTTON	F1SC0040
								SEQUENCE IS EXECUTED AT THE CARD READER.	F1SC0050
								AN INSTALLATION MAY CHANGE THIS RECORD TO SUIT ITS OWN	F1SC0060
								OPERATING NEEDS.	F1SC0070
								OPERATING NELDS.	F1SC0080
								MASTER RECORD CARD = F0090000.	F1SC0090
									F1SC0100
	:	_		_	00030		ORG	24	F1SC0110
_						START	LTM	•	F1SC0120
0	0031	-	77200	_			REW	The second secon	F1SC0120
0	0032	0	76200	0	00321		RCD	209 CARD READER LOAD BUTTON SEQUENCE.	F15C0140
0	0033	. 0	70000	0	00000		CPY		
0	0034	0	02000	٥	00036		TRA	SECCPY	F1SC0150
0	0035	0	00000	0	77777		HTR	32767 CARD READER EMPTY. HALT.	F1SC0160
0	0036	0	70000	0	00001	SECCPY	CPY	1	F1SC0170
-	0037		02000				TRA	0	F1SC0180
•		•			00030		FND		F1SC0190

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REM SOURCE PROGRAM ERROR RECORD. THIS RECORD TESTS SL3 AND SL6 F1SPE010
                                   SOURCE PROGRAM ERROR RECORD. THIS RECORD TESTS SL3 AND SL6 F1SPE010
                                   TO DETERMINE IF A CARD READER LOAD BUTTON SEQUENCE IS TO BE F1SPE020
                                   EXECUTED. OR IF THE NEXT PROGRAM IS TO BE COMPILED. SL3-ON F1SPE030
                                   IF TAPE 5 CANNOT BE READ OR EOF ON TAPE 5 BEFORE END CARD
                                                                                                 F1SPE050
                                   IS FOUND. SS6-ON IF IN BATCH COMPILE MODE.
                                                                                                 F1SPE060
                                                                                                 F1SPE070
                                   MASTER RECORD CARD = F0100000.
                                                                                                 F1SPE080
                               ORG 24
                                                                                                 F1SPE090
00030 -0 76000 0 00007
                               LTM
                                                   SL1-ON IF PROGRAM TO BE RE-TRIED.
                                                                                                 F1SPE100
00031 -0 76000 0 00141
                               SLT 1
                                                                                                 F1SPE110
                               TRA SS6TST
00032 0 02000 0 00034
                                                                                                 F1SPE120
                                                  SKIP TO COMMON RECORD
                               TRA SKIPCM
00033 0 02000 0 00053
                                                                                                 F1SPE130
                                                   SS6-ON IF IN BATCH MODE.
00034 0 76000 0 00166 SS6TST SWT 6
                                                                                                 F1SPE140
                                                   SINGLE COMPILATION. READ CARD READER SEQ.
                               TRA READCD
80035 0 02000 0 00041
                                                   ON IF END CARD ERROR FOUND BY BATCH MONITOR F1SPE150
                               SLT 3
00036 -0 76000 0 00143
                                                   SKIP TO BATCH MONITOR RECORD
                                                                                                 F1SPE160
                               TRA SKIPBM
00037 0 02000 0 00055
                                                                                                 F1SPE170
                               REW 6
00040 0 77200 0 00206
                                                                                                 F1SPE180
00041 0 77200 0 00204 READCD REW 4
                                                                                                 F1SPE190
00042 0 77200 0 00203
                               REW 3
                                                                                                 F1SPE200
                               REW 2
00043 0 77200 0 00202
                                                                                                 F1SPE210
                               REW 1
60044 0 77200 0 00201
                                                 CARD READER LOAD BUTTON SEQUENCE.
                                                                                                 F1SPE220
00045 0 76200 0 00321
                               RCD 209
                                                                                                 F1SPE230
00046 0 70000 0 00000
                               CPY 0
                                                                                                 F1SPE240
                               TRA SECCPY
00047 0 02000 0 00051
                                                                                                 F1SPE250
                                                   CARD READER EMPTY.
                               HTR 32767
00050 0 00000 0 77777
                                                                                                 F1SPE260
00051 0 70000 0 00001 SECCPY CPY 1
                                                                                                 F1SPE270
00052 0 02000 0 00000
                               TRA 0
                                      SKIP OVER FILE 1 MARK TO BATCH MONITOR.
SKIP OVER BATCH MONITOR RECORD
AND/OR SKIP MACHINE ERROR RECORD
TO 1-CS TO READ NEXT RECORD
                                                                                                 F1SPE280
00053 0 76200 0 00221 SKIPCM RTB 1
                                                                                                 F1SPE290
                              RTB 1
00054 0 76200 0 00221
                                                                                                 F1SPE300
00055 0 76200 0 00221 SKIPBM RTB 1
                                                                                                 F1SPE310
                              TRA 4
00056 0 02000 0 00004
                                                                                                 F1SPE320
                               END 24
                 00030
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	RE	MON!	T	OR PRO		R BA	TCH COMPILATION MONITOR PROGRA	F1BM0010 AM FOR BATCH COMPILATION F1E F1E CARD F0120000	BM0010
							,	FIE	BM0020
							MASTER RECORD C	CARD F0120000 F1E	940030
				00030		ORG	24	P10	5MUU 5U
00030	0	76000	0	00166	START	SWT	6	TEST SW6. UP = SINGLE PROBLEM. FIE	5MUU4U
00031	0	02000	0	00146		TRA	ADD93+1	SKIP OVER MACHINE ERROR RECORD AND GO TO SECTIFIE	BMUUDU
00032	0	76000	0	00140		SLN	0	TURN OFF LIGHTS	BMUUGU
00033	0	53400	4	00237	ADD01	LXA	L(5),4	TEST SW6, UP = SINGLE PROBLEM, F1E SKIP OVER MACHINE ERROR RECORD AND GO TO SECIFIE TURN OFF LIGHTS COUNTER FOR 5 TRIES TO READ TAPE 5. F1E F1E TURN OFF INDICATOR ASSUME 14 WORDS PER RECORD F1E F1E F1E F1E F1E F1E F1E F1	BMUUTU
00034	-0	50000	0	00245		CAL	BLANKS	Pit	BMOOSO
00035	Ö	60200	0	00233		SLW	BUFFER-1	Fit	BW0090
00036	Õ	60200	0	00232		SLW	BUFFER-2	TURN OFF INDICATOR F1E F1E F1E F1E ASSUME 14 WORDS PER RECORD F1E	BM0100
00037	-0	76000	Õ	00012		RTT		TURN OFF INDICATOR F18	BM0110
00040	Õ	76100	0	00000		NOP		FIE	BM0120
00041	ŏ	76200	õ	00205	ADD015	RTD	5	F16	BM0130
00042	Ō.	53400	3	00243		LXA	L(14)+3	ASSUME 14 WORDS PER RECORD F18	BM0140
00042	ō	70000	1	00234	ADD02	CPY	BUFFER + 1	F16	BM0150
00044	ñ	02000	ō	00047	,,,,,,,,	TRA	ADD03	Fle	BM0160
00045	ñ	02000	õ	00161		TRA	ADD90	EOF F18	BM0170
00045	ŏ	02000	õ	00050		TRA	ADD04	EOR F16	BM0180
00047	3	00000	ĭ	00050	ADD03	TIX	ADD02 • 1 • 1	F1E	BM0190
00050	6	77100	ñ	00077	ADD04	ARS	255	F18	BM0200
00051	ň	77100	ň	00377	A000.	ARS	255	F16	BM0210
00051	-0	76000	õ	00012		RTT		TEST TAPE INDICATOR F18	BM0220
00052	-0	02000	ñ	00150		TRA	ADD80	ON, PREPARE TO READ AGAIN F18	BM0230
00054	ŏ	76600	ň	00202		WTD	2	OFF. WRITE THIS RECORD ON TAPE 2 F18	BM0240
00055	6	70000	2	00202	ADD05	CPY	BUFFER • 2	FIE	BM0250
00056	2	00000	2	00254	ADDUJ	TIX	ADD05+2+1	EOF F1E EOR F1E EOR F1E TEST TAPE INDICATOR F1E ON, PREPARE TO READ AGAIN F1E OFF, WRITE THIS RECORD ON TAPE 2 F1E F1E F1E F1E F1E F1E	BM0260
00057	^	76600	7	00033		100	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	F16	BM0270
00057	-0	74000	ň	00012		RTT		F16	BM0280
00060	-0	76100	č	00012		NOP		ROUTINE TO RESTORE PRINTER CARRIAGE AND PRINTFIE FIRST STATEMENT OF CURRENT SOURCE PROGRAM FIE FIE FIE CHANGE TXH TO TXL SL1-ON IF AT LEAST 1 SOURCE STATEMENT ON TP 2FIE EXISTS TEST FOR COMMENT CARD FIE	BM0290
00061	3	10100	~	00000	ADD 70	TYH	ADD71 • 0	ROUTINE TO RESTORE PRINTER CARRIAGE AND PRINTFIE	BM0300
00062	2	07400	0	00074	AUUTO	TSY	PRINT.C	FIRST STATEMENT OF CURRENT SOURCE PROGRAM FIR	BM0310
00063	0	01400	7	00332		PZF	RESTR.O.BUFFER	F16	BM0320
00064	ŏ	74400	0	00215		WPR	KLOTK JOJOOT LIK	F18	BM0330
00065 00066	~	76600	~	00361		WPR		F16	BM0330
00066	v	76600	۸	00361		WPR		F16	BM0330
00067	0	76600	~	00361	-	WPR		FI	BM0330
60070	٥	76600	٧	00361		WPR		F10	BM0330
00071	0	50200	Ň	00063		CLS	ADD70	CHANGE TXH TO TXL F1	BM0350
00072	ŏ	40100	۸	00062		STO	ADD70	F11	BM0360
00073	0	74000	~	00002	ADD 71	SIN	1	SLI-ON IF AT LEAST 1 SOURCE STATEMENT ON TP 2F1	BM0370
00074	0	75400	×	00141	ADDII	PYD	0.0	EXISTS F1	BM0380
00075	-0	75400	Ň	00000		100	BUEFFD-14	TEST FOR COMMENT CARD F1	BM0390
00076	. 0	56000	Ŏ	00210		LOW	6	F1	BM0400
00077	-0	/6300	ŏ	00006		SHE	110	F1(BM0410
	ŏ	40200	Š	00244		77E	ADDOI	YES. GO READ NEXT TAPE RECORD F1	BM0420
00101	0	10000	0	00033		161	24	EXISTS TEST FOR COMMENT CARD F10 F10 F10 F10 F10 F10 F10 F1	BM0430
00102	-0	76300	Ö	00030		DAD	0.0	F1	BM0440
				00000		LGI	4	F1	BM0450
•				00006		TTE	4DD06	TEST FOR CONTINUATION CARD F1	BM0460
00105				00110		175	NO ANK	F1	BM0470
00106		40200		00246		JUD TN7	ADDO1	YES GO READ NEXT TAPE RECORD F1	BM0480
		10000	0	00033		11/12	AUUU1 1./121-1	THIS RECORD IS OF FIRST CARD OF A FI	BM0490
00110	0	53400	1	00242	AUUU6	LXA	L(12) +1	YES, GO READ NEXT TAPE RECORD DISCARD FORMULA NUMBER FIL TEST FOR CONTINUATION CARD FIL YES, GO READ NEXT TAPE RECORD THIS RECORD IS OF FIRST CARD OF A	

									•	
00111	•	53400	2	00241		LXA	L(7)•2		FORTRAN STATEMENT. PREPARE TO TEST FOR END(F1BM0500
00111	ŏ	50000	õ	00234		CLA	BUFFER		FOR END(F18M0510
00113	ŏ	60100	ŏ	00232		STO	BUFFER-2		POSITION ENDMARK	F18M0520
00114	ŏ	56000	ŏ	00217		LDQ	BUFFER-13			LIDMOSAO
00115	ŏ	07400	4	00200		TSX	SUB1•4		FAR F	FIBMUDAU
00116	õ	40200	Ó	00247		SUB	L(E)		TEST FIRST CHAR FOR E	FIBMUSSU
00117	-0	10000	ō	00033		TNZ	ADD01			F18M0560
00120	ŏ	07400	4	00200		TSX	SUB1•4			LIBM0210
00121	ŏ	40200	٥	00250		SUB	L(N)		TEST SECOND CHAR FOR N	F18M0580
60122	-0	10000	Õ	00033		TNZ	ADD01			FIBMUS90
00122	ŏ	07400	4	00200		TSX	SUB1•4		, , , , , , , , , , , , , , , , , , ,	L I BWO COO
00124	ō	40200	Ò	00251		SUB	L(D)		TEST THIRD CHAR FOR D	LIBMO010
00125	-0	10000	Õ	00033		TNZ	ADD01			F18M0620
00125	ŏ	07400	4	00200		TSX	SUB1+4		·	L 18W0030
00127	ō	40200	ò	00252		SUB	L(()		TEST FOURTH CHAR FOR (F18M0640
00120	-0	10000	ŏ	00033		TNZ	ADD01			F18M0650
00130	ŏ	07400	4	00200		TSX	SUB1,4			F18M0660
00132	ŏ	07400	4	00200		TSX	SUB1,4			LIBM0010
WU133	ŏ	40200	Ô	00253		SUB	COMMA		TEST SIXTH CHAR FOR .	F1BM0680
00133	-0	10000	ŏ	00033		TNZ	ADD01			F18M0690
00134	Õ	07400	4	00200		TSX	SUB1+4			F18M0700
00135	ŏ	07400	4	00200		TSX	SUB1+4		·	F18W0110
00130	ñ	40200	Ô	00253		SUB	COMMA		TEST EIGHTH CHAR FOR .	F1BM0720
00131	-0	10000	õ	00033		TNZ	ADD01			F1BM0730
00140	0	07400	4	00200		TSX	SUB1:4		·	F18M0740
00142	. 0	07400	4	00200		TSX	SUB1.4			FIBMO750
00142	ñ	40200	Ô	00253		SUB	COMMA		TEST TENTH CHAR FOR COMMA	F1BM0760
00143	-0	10000	ŏ	00033		TNZ	ADD01			F18M0770
00145	ō	77600	ŏ	00202	ADD93	WEF	2		THIS IS END CARD, TERMINATE FILE	F18M0780
00146	ŏ	76200	ŏ	00221		RTB	1.	SKIP OVER	MACHINE ERROR RECORD.	F 18M0 /90
00147	. 0	02000	ō	00004		TRA	4		GO TO 1-CS FOR SECTION ONE	F18M0800
00150	ŏ	76400	ŏ	00205	ADD80	BST	5 .		TAPE ERROR	FIBMOSTO
00151	2	00001	4	00041		TIX	ADD015,4,1			F18M0820
00152	ō	07400	4	00332		TSX	PRINT,4			LIBM0830
00153	ŏ	00301	Ó	00254			TP5ERR,0,TP5END			FIBMUSAU
00154	ŏ	76000	ō	00143	SPROER	SLN	3	SL3-ON IF	TAPE 5 CANNOT BE READ OR END CARD	F18M0820
00155	ō	76400	ŏ	00201	BSTRTN	BST	1	TROUBLE.		FIBMUSOU
00156	ŏ	76400	ŏ	00201		BST	1	BACKSPACE	SYSTEM TAPE TO SOURCE PROGRAM ERROR	F18M0870
60157	õ	76400	ō	00201		BST	1	RECORD.		FIDMUGOU
00160	ō	02000	0	00004		TRA	,4	CALL IN I	- CS.	FIDMUOTU
00161	-0	76000	0	00141	ADD90	SLT	1 .		TAPE 5 CANNOT BE READ OR END CARD SYSTEM TAPE TO SOURCE PROGRAM ERROR - CS. IS THERE A PROBLEM TO BE COMPILED FINISHED, REWIND ALL TAPES	LIBMOADO
00162	õ	02000	0	00167		TRA	ADD91		FINISHED, REWIND ALL TAPES	F18W0310
00162	õ	07400	4	00332		TSX	PRINT,4			F18M0920
00164		00315	0	00301			ENDCD.O.CDTEND			F18M0930
00165	ŏ	77200	ŏ	00205		REW	5			FIBMU940
00166	ŏ	02000	ō	00154		TRA	SPROER			E TOWARDA
00167	0	76400	Ō	00201	ADD91	BST	1			FIBMUY/U
00170	ō	77200	0	00206		REW	6			FIBMUY/4
00171	ō	77200	0	00205		REW	5.			L TRWAND
00172	ŏ	07400	4	00332		TSX	PRINT+C			ETBM0000
00173	ŏ	00332	0	00315			REMA+O+ENDA		•	E1DM1770
00174	0	07400	4	00332		TSX	PRINT,C		Section 1997	E10W1010
00175	0	00216	0	00215		HTR	RESTR.O.RESTR+1			LIBMINON
00176	0	16100	0	00177		TQO	#+1			F TDWIGEO

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F1BM1030
                               TRA BSTRTN
00177 0 02000 0 00155
                                                        SUBROUTINE TO BRING NEXT NON BLANK F1BM1040 CHAR OF BUFFER REGION TO AC. F1BM1050
00200 -0 75400 0 00000 SUB1
                              PXD 0.0
                              TIX ADD50,2,1
00201 2 00001 2 00205
                                                                                                F1BM1060
                              LXA L(6)+2
00202 0 53400 2 00240
                                                                                                F1BM1070
                              LDQ BUFFER 1
00203 0 56000 1 00234
                                                                                                F1BM1080
                              TXI ADD50-1--1
00204 1 77777 1 00205
                                                                                                F1BM1090
00205 -0 76300 0 00006 ADD50 LGL 6
                                                                                                F1BM1100
00206 0 34000 0 00246
                              CAS BLANK
                                                                                                F1BM1110
                              TRA ADD51
00207 0 02000 0 00211
                                                                                                F1BM1120
                              TRA SUB1
00210 0 02000 0 00200
                                                                                                F1BM1130
00211 0 34000 0 00235 ADD51 CAS ENDMK
                                                                                                F1BM1140
                              TRA 194
00212 0 02000 4 00001
                                                                                                F1BM1150
                              TRA ADDO1
00213 0 02000 0 00033
                                                                                                F18M1160
00214 0 02000 4 00001
                              TRA 1,4
                                                                                                F1BM1165
00215 016060606060
                       RESTR BCD 11
                                                                                                F1BM1170
                 00234 BUFFER BES 14
                                                                                                F18M1180
                              OCT 77777777777
00234 -377777777777
                                                                                                F1BM1190
00235 +0000000000077
                       ENDMK OCT 77
                                                                                                F1BM1200
                                  3
00236
      0 00000 0 00003 L(3)
                                                                                                F1BM1210
       0 00000 0 00005 L(5)
                                  5
00237
                                                                                                F1BM1220
      0 00000 0 00006 L(6)
00240
                                                                                                F1BM1230
00241
       0 00000 0 00007 L(7)
                                                                                                F1BM1240
                                  12
       0 00000 0 00014 L(12)
00242
                                                                                                F1BM1250
                                  14
00243
       0 00000 0 00016 L(14)
                                                                                                F1BM1260
                       L(C)
                              BCD 100000C
       000000000023
00244
                                                                                                F1BM1270
00245
       606060606060
                       BLANKS BCD 1
                                                                                                F18M1280
                       BLANK BCD 100000
60246
       000000000000
                                                                                                F1BM1290
                              BCD 100000E
00247
       000000000025
                       L(E)
                                                                                                F1BM1300
                              BCD 100000N
00250
       000000000045
                       L(N)
                                                                                                F1BM1310
                              BCD 100000D
00251
       000000000024
                       L(D)
                                                                                                F18M1320
                       L(()
                              BCD 100000(
00252
       000000000074
                                                                                                F1BM1330
                       COMMA BCD 100000,
00253
       000000000073
                       TPSERR BCD 90 TAPE 5 CONTAINING SOURCE SUBPROGRAM READ 5 TIMES
                                                                                                F1BM1340
00254
       006060606060
00255
       632147256005
00256
       602346456321
00257
       314531452760
00260
       624664512325
00261
       606264224751
00262
       462751214460
00263
       512521246005
00264
       606331442562
                              BCD 9 UNSUCCESSFULLY. TAPE 5 NOW POSITIONED AT RECORD WHICH
                                                                                                F1BM1350
00265
       606445626423
00266
       232562622664
00267
       434370336063
00270
       214725600560
00271
       454666604746
00272 623163314645
00273 252460216360
00274
      512523465124
00275
       606630312330
                                                                                                 F1BM1360
                              BCD 3 CANNOT BE READ.
00276 602321454546
00277
       636022256060
       512521243360
00300
                                                                                                 F1BM1370
               -- 00301 TP5END BSS 0
```

00301	006060606060	ENDCD	BCD	90 END	CARD MISSING	OR MISPUNCHED	FOR LAST SUBI	PROGR	F1BM1380
00302	254524602321								
00303	512460443162								.*
00304	623145276046								
00305	516044316247								
00306	644523302524								
00307	602646516043								,
00310	216263606264								
00311	224751462751								
00312	214460222531		BCD	3AM BEING	COMPILED.				F1BM1390
00313	452760234644		•	••••					
00314	473143252433								
00314		COTEND	BSS	٥					F1BM1400
00315	016060606060	REMA	BCD			-			F1BM1410
00316	606060606060	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	000	••					
00317	606060606060								
	606060606060								
00320									
00321	606060606060								
00322	606060606060								
00323	606060606060		000	4 THE LACT		DEEN BROCESSED.			F1BM1420
00324	606330256043		RCD	6 THE LAST	PRUDLEM HAS I	BEEN PROCESSED.		,	FIDRITATO
00325	216263604751								
00326	462243254460								
00327	302162602225								
00330	254560475146								
00331	232562622524			_					E10#1420
	00332	ENDA	BSS	0					F1BM1430
						-			F1BM1450
	•				ROL SUBROUTIN	. •			F1BM1460
	00001	A	EQU	-					F1BM1470
	00002	В	EQU						F1BM1480
	00004	C	EQU	4					F1BM1490
	00332	PRINT	BSS	0					F1BM1500
00332	0 50000 4 00001	RAN	CLA	1 • 4					F18M1510
00333	0 62100 0 00374		STA	RNA					F1BM1520
00334	0 77100 0 00022		ARS	18					F1BM1530
00335	0 60100 0 00375	•	STO	RNB					F1BM1540
	-0 63400 4 00376		SXD	RNC . 4					F18M1550
00337	0 50000 0 00374	RN40	CLA	RNA				,	F1BM1560
00340	0 40000 0 00377	****	ADD	RND					F1BM1570
00341	0 34000 0 00375			RNB					F1BM1580
00342	0 76100 0 00000		NOP						F18M1590
				RN50					F18M1600
00343	0 02000 0 00364 0 76700 0 00022		ALS						F1BM1610
00344				RNA					F1BM1620
00345	0 40000 0 00374			RAN10				. *	F1BM1630
00346	0 60100 0 00350		_						F1BM1640
00347	0 07400 4 00401	04417.0		WOT . C					F1BM1650
00350	0 00000 0 00000	RAN10		DANIA					F1BM1660
00351	0 50000 0 00350			RAN10			•		F1BM1670
00352	0 77100 0 00022		ARS	_					F1BM1680
00353	0 40200 0 00400			RNE					F1BM1690
00354	0 62100 0 00361		_	RN20					F1BM1700
0 0355	0 40200 0 00400			RNE					
00356	0 62100 0 00362		STA	RN30					F18M1710

•

```
F18M1720
                                    STA RNA
      00357 0 62100 0 00374
             0 50000 0 00613
                                    CLA BLNKS
      00360
                                                                                                    F1BM1740
                              RN20 STO
             0 60100 0 00000
      00361
                                                                                                    F1BM1750
                              RN30 STO
      00362 0 60100 0 00000
                                                                                                    F1BM1760
                                    TRA RN40
      00363 0 02000 0 00337
                                                                                                    F1BM1770
                              RN50 CLA RNB
      00364 0 50000 0 00375
                                                                                                    F1BM1780
                                    ALS 18
      00365 0 76700 0 00022
                                                                                                    F18M1790
                                    ADD RNA
      00366 0 40000 0 00374
                                                                                                    F1BM1800
                                    STO RN60
      00367 0 60100 0 00371
                                                                                                    F1BM1810
                                    TSX WOT .C
      60370 0 07400 4 00401
                                                                                                    F1BM1820
      00371 0 00000 0 00000
                              RN60 HTR
                                                                                                    F1BM1830
                                    LXD RNC.C
      00372 -0 53400 4 00376
                                                                                                    F1BM1840
                                    TRA 2.C
      00373 0 02000 4 00002
                                                                                                    F18M1850
                                    HTR
      00374 0 00000 0 00000
                              RNA
                                                                                                    F1BM1860
                                    HTR
      00375 0 00000 0 00000
                              RNB
                                                                                                    F1BM1870
                                    HTR
                              RNC
      00376 0 00000 0 00000
                                                                                                    F18M1880
                                    HTR 20
      00377 0 00000 0 00024
                              RND
                                                                                                    F18M1890
                                    HTR 1
      00400 0 00000 0 00001
                                                                                                    F1BM1900
                                                                                                    F1BM1910
                                        PRINT SUBROUTINE.
                                                                                                    F1BM1920
      00401 -0 63400 1 00551 WOT
                                   SXD X1.1
                                                                                                    F1BM1930
                                    SXD X2.2
      00402 -0 63400 2 00557
                              SXD X292
CLA 194
STA T5
STD X4
ARS 18
ADD X4
STA PR2
STA CI9
SUB 194
TZE 294
                                                                                                    F1BM1940
                                                    PRINT ROUTINE
      00403 0 50000 4 00001
                                                                                                    F1BM1950
      00404 0 62100 0 00432
                                                                                                    F1BM1960
      00405 0 62200 0 00614
                                                                                                    F1BM1970
      60406 0 77100 0 00022
                                                                                                    F1BM1980
      00407 0 40000 0 00614
                                                                                                    F1BM1990
      00410 0 62100 0 00463
                                                                                                    F1BM2000
      00411 0 62100 0 00510
                                                                                                    F1BM2010
                                                     B-A+1 IN AC
      00412 0 40200 4 00001
                                                                                                    F1BM2020
      00413 0 10000 4 00002
                                                                                                    F1BM2030
                                  TMI 294
      00414 -0 12000 4 00002
                                                                                                    F1BM2040
                                    SXD X4+4
      00415 -0 63400 4 00614
                                                                                                    F18M2050
      00416 0 73400 4 00013 L11 PAX 11:4
                                                                                                    F1BM2060
                                    SXD PR6,4
      00417 -0 63400 4 00422
                                                                                                    F1BM2070
                                                     INITIALIZE SWITCH
      00420 -0 50000 0 00564
                                    CAL WP
                                                                                                    F18M2080
                                    STO WP
      00421 0 60100 0 00564
                                                                                                    F1BM2090
                                  TXH T4
      00422 3 00000 0 00423
TD
                                                                                                    F1BM2100
                                    WPR
      00423 0 76600 0 00361 T4
                                                                                                    F16M2110
                                    TXL S3
      00424 -3 00000 0 00430
                              Z 2
TD
                                                                                                    F1BM2120
      00425 -3 00000 0 00000 OZ2
                                    TXL
ATD
                                                                                                    F1BM2130
                                    SPR 4
      00426 0 76000 0 00364
                                                                                                    F1BM2140
                                    TXL RPR+2
      00427 -3 00000 0 00461
TD
                                                                                                    F18M2150
                                                     SET SWITCH FOR MASKING
                                    CLS WP
      00430 0 50200 0 00564
                                                                                                   F1BM2160
                                                     CHARACTER FROM TYPE WHEEL 1
                                    STO WP
      00431 0 60100 0 00564
                                                                                                   F18M2170
                                                     OBTAIN FIRST CHARACTER
                                  CAL *
      00432 -0 50000 0 00432 T5
                                                                                                   F1BM2180
      00433 0 77100 0 00036
                                   ARS 30
                                                                                                    F1BM2190
                                                     DOUBLE SPACE IF ZERO
                                  TZE SP4
      00434 0 10000 0 00426
                                                                                                    F1BM2200
                                                     TEST FOR SPACE SUPPRESS
                                 CAS YZONE
      00435 0 34000 0 00615
                                                                                                    F1BM2210
                                  TXL BK
                                                     NO
      00436 -3 00000 0 00440
TD
                                                                                                    F1BM2220
                                                     SUPPRESS SPACE
                                  TXL RPR+1
      00437 -3 00000 0 00460
TD
                                                                                                    F1BM2230
                                                     TEST FOR BLANK
                                 CAS BNK
      00440 0 34000 0 00616 BK
                                                                                                    F1BM2240
                                  TXL DIGF
                                                     NO
      00441 -3 00000 0 00443
TD
                                                                                                     F18M2250
                                                     BLANK
                                   TXL RPR+2
      00442 -3 00000 0 00461
TD
```

	00443 0 76000 0 00372	DIGF SPR 10	SET CHANNEL SKIP	F1BM2260
	00444 -0 32000 0 00445	ANA MK	MASK OUT ZONE	F1BM2270
	00445 0 73400 1 00017	MK PAX 15,1		F1BM2280
	00446 1 00001 1 00447	TXI N2.1		F18M2290
	00447 -2 00010 1 00451	N2 TNX N3+1		F1BM2300
	00450 0 76000 0 00370	SPR 8	X	F1BM2310
	00451 -2 00004 1 00453	N3 TNX N4.1		F1BM2320
	00452 0 76000 0 00364	SPR 4	X	F18M2330
	00453 -2 00002 1 00455	N4 TNX N5 • 1		F18M2340
	00454 0 76000 0 00362	SPR 2	X	F1BM2350 F1BM2360
	00455 -2 00001 1 00457	N5 TNX RPR.		
	00456 0 76000 0 00361	SPR 1	X	F1BM2370 F1BM2380
	00457 0 76600 0 00361	RPR WPR		F1BM2390
	00460 0 76000 0 00365	SPR 5	SUPPRESS SPACE	F1BM2400
	00461 0 50000 0 00613	CLA BLNK		F1BM2410
	00462 -0 53400 4 00523	LXD CI4+		F1BM2410
	00463 0 34000 4 00000	PR2 CAS 0.4	X	F1BM2430
	00464 1 77777 4 00467	TXI PR1.		F18M2440
	00465 1 00001 4 00463	TXI PR2		F1BM2440
	00466 1 77777 4 00467	TXI PR1		F1BM2460
	00467 -0 63400 4 00527	PR1 SXD CI6,		
	00470 -0 63400 4 00541	SXD CI8,		F18M2470 F1BM2480
	00471 -0 63400 4 00474	SXD PR8		F18M2490
	00472 -0 63400 4 00601	SXD WP4		F1BM2500
	00473 -0 53400 4 00422	LXD PR6.		F1BM2510
D	00474 -2 00000 4 00500	PR8 TNX PR5		F1BM2520
	00475 -3 00014 4 00477	TXL PR3		F1BM2530
	00476 0 76000 0 00370	SPR 8	FIRST CYCLE 4 INITIALIZE GROUP COUNT	F18M2540
	00477 -0 53400 4 00422	PR3 LXD PR6.		F1BM2550
	00500 0 53400 2 00502	PR5 LXA PR7		F1BM2560
_	00501 -0 53400 1 00544	LXD YZ1+		F1BM2570
T	00502 -0 75400 0 00000	PR7 PXD	X X	F18M2580
	00503 0 60200 1 00662	PR4 SLW LT 1 SLW RT 1	x ·	F1BM2590
	00504 0 60200 1 00642	TIX PR4+		F1BM2600
	00505 2 00001 1 00503		INITIALIZE COLUMN INDICATOR	F18M2610
	00506 -0 50000 0 00620		X	F1BM2620
	00507 0 60200 0 00621		OBTAIN GROUP	F1BM2630
	00510 0 56000 4 00000	CI9 LDQ 0,4 SXD OZ2,4		F1BM2640
	00511 -0 63400 4 00425	LXA Q6,4	SET CHARACTER COUNT	F1BM2650
_	00512 0 53400 4 00514	CI1 PXD		F1BM2660
T	00513 -0 75400 0 00000	Q6 LGL 6		F1BM2670
	00514 -0 76300 0 00006	PAX 0+1		F1BM2680
	00515 0 73400 1 00000	CAL COL	POSITION COLUMN INDICATOR	F18M2690
	00516 -0 50000 0 00621 00517 0 77100 4 00006	ARS 6,4	X	F1BM2700
	00517 0 77100 4 00006 00520 2 00020 1 00544	TIX YZ1+		F1BM2710
		TXH YZ2		F1BM2720
	00521 3 00017 1 00547 00522 -0 60200 3 00657	CI5 ORS D.3	STORE DIGIT	F1BM2730
	00523 2 00001 4 00513	CI4 TIX CI1,		F1BM2740
	00524 0 77100 0 00001	CI3 ARS 1	SHIFT AND TEST COLUMN	F1BM2750
	00525 -0 53400 4 00425	LXD OZ2		F1BM2760
	00526 1 77777 4 00527	TXI CI6+		F1BM2770
D	00527 -3 00000 4 00531	CI6 TXL CIT		F1BM2780
U	00530 -0 10000 0 00507	TNZ CI2	TEST FOR END OF ROW	F1BM2790
	00300 -0 10000 0 00301	,		

```
F1BM2800
       00531 -0 50000 2 00644 CI7
                                           CAL 8.3.2
                                                              FORM TRUE 8,4
                                                                                                                       F1BM2810
                                                               AND 3 ROWS AND
                                           ORS D-8+2
       00532 -0 60200 2 00647
                                                                                                                       F1BM2820
                                                               MOVE 8.4 AND 8.3
                                           ORS D-3:2
       00533 -0 60200 2 00654
                                                                                                                       F1BM2830
                                                               ROWS
                                           SLW 8.2.2
       00534 0 60200 2 00645
                                                                                                                       F1BM2840
                                                               FORM TRUE 8.4
                                           CAL 8.4.2
       00535 -0 50000 2 00643
                                                                                                                       F1BM2850
                                           ORS D-8 2
       00536 -0 60200 2 00647
                                                                                                                       F1BM2860
                                           ORS D-4,2
       00537 -0 60200 2 00653
                                                                                                                       F1BM2870
                                           SLW 8.3.2
       00540 0 60200 2 00644
                                                                                                                       F1BM2880
                                                          TEST FOR END
TEST FOR RIGHT HALF
                                                              TEST FOR END
                                           TXL WP+4
       00541 -3 00000 4 00564 CI8
                                                                                                                       F18M2890
                                           TXH WP,2,15
       00542 3 00017 2 00564
                                                                                                                       F1BM2900
                                                             INITIALIZE RIGHT HALF
                                           TXI CIR, 2, 16
       00543 1 00020 2 00506
                                         TIX XZ1,1,16
TEST FOR 16/CH/32
TXH XZ2,1,15
TEST FOR X-ZONE
ORS D,3
STORE DIGIT
ORS Y,2
STORE Y-ZONE
TIX CI1,4,1
COUNT CHARACTERS
TXL CI3
OBTAIN NEXT GROUP
TIX OZ1,1,16
TEST FOR 32/CH/48
TXH CI4,1,15
TEST FOR BLANK
ORS D,3
STORE DIGIT
ORS X,2
STORE X-ZONE
TIX CI1,4,1
COUNT CHARACTERS
TXL CI3
OBTAIN NEXT GROUP
ORS Z,2
STORE O-ZONE
ORS D,3
STORE DIGIT
TIX CI1,4,1
COUNT CHARACTERS
TIX CI1,4,1
COUNT CHARACTERS
TIX CI1,4,1
TIX CI1,4,1
COUNT CHARACTERS
TXL CI3
                                                                                                                       F1BM2910
                                                          TEST FOR 16/CH/32
       00544 2 00020 1 00552 YZ1
                                           TIX XZ1,1,16
                                                                                                                       F1BM2920
       00545 3 00017 1 00555
                                                                                                                       F1BM2930
       00546 -0 60200 3 00657
                                                                                                                       F1BM2940
       00547 -0 60200 2 00661 YZ2
                                                                                                                       F1BM2950
       00550 2 00001 4 00513
                                                                                                                       F1BM2960
       00551 -3 00000 0 00524 X1
                                                                                                                       F18M2970
       00552 2 00020 1 00560 XZ1
                                                                                                                       F1BM2980
       00553 3 00017 1 00523
                                                                                                                       F1BM2990
       00554 -0 60200 3 00657
                                                                                                                       F1BM3000
       00555 -0 60200 2 00660 XZ2
                                                                                                                       F1BM3010
       00556 2 00001 4 00513
                                                                                                                       F18M3020
       00557 -3 00000 0 00524 X2
TD
                                                                                                                       F18M3030
       00560 -0 60200 2 00657 021
                                                                                                                       F18M3040
       00561 -0 60200 3 00657
                                                                                                                       F18M3050
       00562 2 00001 4 00513
                                          TXL CI3

TXH WP9

INVERTED TO TXL IF PROGRAM CARRIAGE CONTROL

TXL WP7

NO PROGRAM

LXD WP2.1

MASK OUT FIRST COL. OF CARD IMAGE
                                                                                                                       F1BM3060
       00563 -3 00000 0 00524
TD
                                                                                                                       F1BM3070
       00564 3 00000 0 00566 WP
TD
                                                                                                                       F1BM3080
       00565 -3 00000 0 00572
TD
                                                                                                                       F1BM3090
       00566 -0 53400 1 00612
                                                                                                                       F18M3100
                                           CAL MK2
ANS LT+1
       00567 -0 50000 0 00617
                                                                                                                       F18M3110
       00570 0 32000 1 00662
                                   ANS
                                                                                                                       F1BM3120
                                           TIX ANS,1,1
       00571 2 00001 1 00570
                                                               COPY LOOP
                                                                                                                       F1BM3130
                                   WP7
                                           LXD Z2:1
       00572 -0 53400 1 00424
                                                                                                                       F1BM3140
                                   CRAN CPY LT-12,1
       00573 0 70000 1 00646
                                                                                                                       F1BM3150
                                           CPY RT-12.1
              0 70000 1 00626
       00574
                                                                                                                       F1BM3160
                                           TXI T2+1+-1
       00575
              1 77777 1 00576
                                                                                                                       F1BM3170
                                           TXH CRAN+1+-12
              3 77764 1 00573 T2
                                           CAL WP
                                                              RESET SWITCH FOR SECOND CYCLE
                                                                                                                       F1BM3180
       00577 -0 50000 0 00564
                                                                                                                       F1BM3190
                                           STO WP
              0 60100 0 00564
       00600
                                                                                                                       F1BM3200
                                           TXH WP5+4
       00601 3 00000 4 00610
                                          LXD X1:1
LXD X2:2
LXD X4:4
TRA 2:4
                                                              NO. RELOAD INDEX REGISTERS AND RETURN
                                                                                                                       F1BM3210
       00602 -0 53400 1 00551
                                                                                                                       F1BM3220
       00603 -0 53400 2 00557
                                                                                                                       F1BM3230
       00604 -0 53400 4 00614 WT2
                                          LXD X494
                                                                                                                       F1BM3240
                                           TRA 2:4
       00605
              0 02000 4 00002
                                  L2
                                                                                                                       F1BM3250
                                           WPR
       00606 0 76600 0 00361
                                    RPR2
                                                                                                                       F1BM3260
                                           TXL PR2-2
       00607 -3 00000 0 00461
TD
                                                                                                                       F1BM3270
                                          WPR
SPR 9
SECOND CYCLE
TXL PR5.0.12
CONVERT REST OF LINE
       00610 0 76600 0 00361 WP5
                                                                                                                       F1BM3280
       00611 0 76000 0 00371
                                                                                                                       F1BM3290
       00612 -3 00014 0 00500
                                  WP2
                                                                                                                       F1BM3300
                                    BLNKS BCD 1
       00613 606060606060
                                                                                                                       F18M3310
                                           HTR
       00614 0 00000 0 00000 X4
                                                                                                                       F1BM3320
                                   YZONE OCT 20
       00615 +0000000000020
                                                                                                                       F1BM3330
       00616 +0000000000060
                                    BNK OCT 60
```

00617 +377777777777	MK2	OCT 37777777777		F1BM3340
	COL1	MZE		F1BM3350
00020		BSS 1		F1BM3360
00621	COL	-		F18M3370
00642	RT	BES 16		F1BM3380
.00642	8.5	BSS 1		F1BM3390
00643	8 • 4	BSS 1		
00644	8.3	BSS 1		F1BM3400
00645	8.2	BSS 1		F1BM3410
00657	D	BES 9		F1BM3420
	-		•	F1BM3430
00657	Z	BSS 1		F18M3440
00660	X	BSS 1		F1BM3450
00661	Y	BSS 1		
00662	LT	SYN Y+1		F1BM3460
00644		SYN LT-14		F1BM3470
00624	8 • 4R	SYN RT-14		F1BM3480
	00410	-		F1BM3490
00662		BSS 27		F18M3500
00030		END 24		. 2543300

TRA 4

END 24

00035 0 02000 0 00004

00030

TO 1-CS TO READ NEXT RECORD.

F1ME0170

APPLIED PROGRAMMING. IBM . L. MAY AND A. S. NOBLE JR. 704 FORTRAN II / SECTION ONE. SECTION 1= READS IN AND CLASSIFIES STATEMENTS. FOR ARITHMETIC4F10000 FORMULAS, COMPILES THE OBJECT (OUTPUT) INSTRUCTIONS. FOR NONARITHMETIC STATEMENTS INCLUDING INPUT-OUTPUT, DOES A PARTIAL COMPILATION, AND RECORDS THE REMAINING INFORMATION

IN TABLES. 4F10004 THE FIVE MAJOR DIVISIONS OF SECTION 1 ARE= 4F10005 COMMON, STATES A, B, C, AND D. COMMON REMAINS IN LOWER MEMORY4F10006 THROUGHOUT SECTIONI. STATE A READS IN AND CLASSIFIES ALL 4F10007 STATEMENTS, AND TREATS NONARITHMETIC STATEMENTS. STATES B, 4F10008 C. AND D TREAT ARITHMETIC FORMULAS. 4F10009 4F10010 SECTION 1 / COMMON = 4F10011 704 FORTRAN MASTER RECORD CARD / COMMON = F0140000. 4F10012 ORG O 4F100121 PZE ORGCOM. 1TOCS 4F100122 PZE ORGA-1 4F100123 4F10013 PART 1 / WORKING STORAGE, BUFFERS, AND TABLE PARAMETERS= 4F10014 EIFNO AND SENSE SWITCH SIMULATORS. 4F10015

4F10001

4F10002

4F10003

00000

0 00004 0 00030 0 00000 0 03437

> TAPE TABLE BUFFERS. 4F10016 TAPE TABLE PARAMETERS - INTET. 4F10017 DRUM TABLE PARAMETERS. 4F10018 FORSUB COUNT AND BUFFER. 4F10019 CIB BUFFER AND PARAMETERS. 4F10020 REMAINING WORKING STORAGE. 4F10021 PART 2 / CONSTANTS USED BY SECTION ONE. 4F10022 PART 3 / SUBROUTINES USED BY SECTION ONE= 4F10023 NAME FUNCTION 4F10024 C0150+2 SCAN, AND CONVERT NUMERICS. 4F10025 C0160+2 SCAN CHARACTERS. 4F10026 C0180.2 CONVERT NUMERICS. 4F10027 C0190X+4 INITIALIZE CO190 TO 1ST WORD OF F. 4F10028 C0390,4 INSERT CHARACTER. 4F10029 C0190,4 OBTAIN NEXT NON-BLANK CHAR IN AC. 4F10030 C1T00,4 COMPILED INSTRUCTION TABLE ENTRIES.4F10031 DIM.SR.4 DIMENSION TABLE SEARCH. 4F10032 DRTABS(,4) DRUM TABLE ENTRIES. 4F10033 GETIFN.4 GET INTERNAL FORMULA NUMBER. 4F10034 JIF(GIF),4 JUMPS (GETS) IFN IN SL AND TL. 4F10035 MONITOR STATES FROM DRUM. MTROCO 4F10036 RA000+4 COMPUTE RELATIVE ADDRESS. 4F10037 RDRX,4 READ DRUM INTO BUFR. 4F10038 SR6DC1 • 1 CONVERT 6 BCD DIGITS TO 1 BINARY. 4F10039 \$5000,4 SCAN AND PROCESS SUBSCRIPTS. 4F10040 SUBX00 • 4 ADD BLANKS TO SUBROUTINE NAMES. 4F10041 TESTFX,1 TEST FOR FIXED OR FLOATING POINT. 4F10042 TEST .. . 4 TEST CHARACTER IN THE AC. 4F10043 TET00.1 TAPE TABLE ENTRIES. 4F10044 4F10045 DIAG DIAGNOSTIC CALLERS. 4F10046

```
4F10047
                                   THE FOLLOWING CONVENTIONS ARE USED IN THIS LISTING=
                                                                                                 4F10048
                                                                                                 4F10049
                                 ** IN THE ADDRESS, TAG, OR DECREMENT OF AN INSTRUCTION
                                                                                                 4F10050

    INDICATES THAT THIS FIELD WILL BE MODIFIED BY THE PROGRAM.

                                                                                                 4F10051
                                   * IN COL/36 INDICATES THE INSTRUCTION IS A TRANSFER OUT OF
                                                                                                 4F10052
                                   THIS LOGICAL BLOCK OR SUBROUTINE.
                                                                                                 4F10053
                                   C IN COL/34 INDICATES THE INSTRUCTION WAS CORRECTED.
                                                                                                 4F10054
                                   P IN COL/32 INDICATES THE INSTRUCTION WAS INSERTED (PATCH). 4F10055
                                                                                                 4F10056
                                                                                                *4F10057
                                                                                                 4F10058
                                                                                                 4F10059
                                   COMMON/1-WORKING STORAGE, BUFFERS, AND TABLE PARAMETERS=
                 00030 ORGCOM ORG 24
                                                                                                 4F10060
                                                                                             # #4F10061
                                                                                                 4F10062
                                   EIFNO AND SENSE SWITCH SIMULATORS.
                                                                                                 4F10063
       0 00000 0 00000 EIFNO
                              PZE **,,**
                                                             EXTERNAL .. INTERNAL FORMULA NUMBER. 4F10064
00031
       0 00000 0 00002 ENDI1
                              PZE 2
                                                             SIMULATOR FOR SENSE SWITCH 1.
                                                                                                 4F10065
       0 00000 0 00002 ENDI2
00032
                                                           SIMULATOR FOR SENSE SWITCH 2.
                                                                                                 4F10066
       0 00000 0 00002 END13
00033
                              PZE 2
                                                            SIMULATOR FOR SENSE SWITCH 3.
                                                                                                 4F10067
00034
       0 00000 0 00002 END14
                              PZE 2
                                                             SIMULATOR FOR SENSE SWITCH 4.
                                                                                                 4F10068
       0 00000 0 00002 ENDIS PZE 2
                                                             SIMULATOR FOR SENSE SWITCH 5.
                                                                                                 4F10069
                                                                                           * * *4F10070
                                                                                                 4F10071
                                  BUFFERS USED BY TETOO FOR THE TAPE TABLES.
                                                                                                 4F10072
                 00036 TEIFNO BSS 10
                                                             EXTERNAL .. INTERNAL FORMULA NUMBERS . 4F10073
                 00050 TD0
                              BSS 10
                                                             DO STATEMENTS.
                                                                                                4F10074
                 00062 T1FG0
                             BSS 10
                                                             IF AND GO TO STATEMENTS.
                                                                                                4F10075
                 00074 TRAD
                              BSS 10
                                                             IF AND GO TO TRANSFER ADDRESSES.
                                                                                                4F10076
                 00106 FORTAG BSS 10
                                                             INDEXES TO TAU AND SIGMA TABLES.
                 00120 FORVAR BSS 10
                                                             RIGHT - NON-SUB. FX. PT. VARIABLES.4F10078
                 00132 FORVAL BSS 10
                                                            LEFT - NON-SUB. FX. PT. VARIABLES.4F10079
                 00144 FRET
                              BSS 10
                                                             FREQUENCY STATEMENTS.
                 00156 EQUIT BSS 10
                                                             EQUIVALENCE STATEMENTS.
                                                                                                4F10081
                 00170 CLOSUB BSS 10
                                                            NAMES OF SUBROUTINES.
                                                                                                4F10082
                 00202 FORMAT BSS 10
                                                                                                4F10083
                                                            FORMAT STATEMENTS.
                 00214 SUBDEF BSS 10
                                                            SUBROUTINE DEFINITION STATEMENTS. 4F10084
                 00226 COMMON BSS 10-
                                                            UPPER MEMORY STORAGE STATEMENTS.
                 00240 HOLARG BSS 10
                                                            HOLLERITH ARGUMENTS FOR SUBROUTINE 4F10086
                 00252 NONEXC BSS 10
                                                            NON-EXECUTED STATEMENTS.
                                                                                                4F10087
                 00264 TSTOPS BSS 10
                                                            STOP STATEMENTS.
                 00276 CALLFN BSS 10
                                                            1ST / LAST IFN FOR CALL STATEMENTS.4F10089
                 00310 FMTEFN BSS 10
                                                             TABLE OF FORMAT EXTERNAL FORMNOS. 4F10090
                                   END OF THE TAPE TABLE BUFFERS.
                                                                                                4F10091
                                                                                               *4F10092
                                                                                                4F10093
                                  INTET/ TABLE PARAMETERS USED BY TETOO, WHERE
                                                                                                4F10094
                                                            O = ORIGIN OF TABLE BUFFER,
                                                                                                4F10095
                                                            B = BUFFER CAPACITY.
                                                                                                4F10096
                                                            A = ADDRESS OF TABLE ENTRY.
                                                                                                4F10097
                                                            E = ENTRY LENGTH IN WORDS,
                                                                                                4F10098
                                                            C * COUNT OF BLOCKS PUT ON TAPE,
                                                                                                4F10099
```

P = PORTION OF BUFFER THAT IS FULL 4F10100

										*	
					•			•		,	4F10101
00322	0	00012	0	00036	INTET	PZE	TEIFNO 10	00)	0++B+		4F10102
00323		00001				PZE	EIFNO.1		A,,E.		4F10103
00324		00000				PZE	** , , **		C.P.		4F10104
00524	. •	00000	•					•			4F10105
00325	O	00012	0	00050		PZE	TD0 • • 10	01)	0,,8.		4F10106
00326		00005				PZE	10,,5		A,,E.		4F10107
00327		00000				PZE	** , , **		C++P+		4F10108
00321		*****	•	••••							4F10109
00330	O	00012	0	00062		PZE	TIFG010	02)	0,,B.		4F10110
00331		00002				PZE	10,,2		A,,E.		4F10111
00332		00000				PZE	** , , **		CooP.		4F10112
UU 332	•		•							· · · · · · · · · · · · · · · · · · ·	4F10113
00333	0	00012	0	00074		PZE	TRAD 10	03)	0,,B.		4F10114
00334		00001					1G++1		A++E+		4F10115
00335		00000					** , , **		C++P+		4F10116
00333	•	00000	•	***************************************						·	4F10117
00336	0	00012	٥	00106		PZE	FORTAG. 10	04)	0 + + B +		4F10118
00337	-	00001				PZE	G > 1		A,,E.		4F10119
00340	-	00000					** , , **		C++P+		4F10120
00340	•	,00000	•	••••							4F10121
00341	Ω	00012	٥	00120		PZE	FORVAR ++10	95)	0B.		4F10122
00342		00002					G.,2		AssE.		4F10123
00342		00000				_	**,,**		CooP.		4F10124
00343	•	00000	•								4F10125
00344	۵	00012	٥	00132		PZE	FORVAL + + 10	96)	0B.		4F10126
00345		00002				PZE	G > > 2		A++E+		4F10127
00346		00000				PZE	#7-99##		C.P.		4F10128
44340	•	••••	•								4F10129
00347	٥	00012	0	00144		PZE	FRET 10	07)	0,,B.		4F10130
00350		00001				PZE	1G 1		A,,E.		4F10131
00351		00000				PZE	** , , **		CooP.	•	4F10132
		•••									4F10133
00352	0	00012	0	00156		PZE	EQUIT 10	(80	0,,B.		4F10134
00353		00002				PZE	10++2		A++E+		4F10135
00354		00000				PZE	**,,**		Coop.		4F10136
00351	-		-								4F10137
00355	٥	00012	٥	00170		PZE	CLOSUB **10	091	0,,B.		4F10138
00356		00001					G 1		A,,E.		4F10139
00357	-	00000					** , , **		C.P.		4F10140
00331	•	••••	•								4F10141
00360	O	00012	n	00202		PZE	FORMAT + + 10	10)	0,,B.		4F10142
00361		00002					G,,2		A,,E.	·	4F10143
00362		00000					**,,**		C,,P.		4F10144
00302	•	00000	•				• •				4F10145
00363	۵	00012	0	00214		PZE	SUBDEF + + 10	11)	0,,B.	the second secon	4F10146
00364	-	00001					1G++1		A,,E.		4F10147
00365					SBDFCN				C,,P.		4F10148
44,545	_										4F10149
00366	0	00012	0	00226		PZE	COMMON 10	12)	0 B .	•	4F10150
00367	_	00001	-				1G,,1		A,,E.		4F10151
00370	-	00000					** , , **	•	C++P+		4F10152
005.0	•		•								4F10153
00371	٥	00012	0	00240		PZE	HOLARG 10	13)	0,,B.		4F10154
****	•		_								

```
00372
       0 00001 0 01112
                               PZE 1G**1
                                                                 AssE.
                                                                                                4F10155
 00373
       0 00000 0 00000
                               PZE ** , , **
                                                                                                4F10156
                                                                 CooP.
                                                                                                4F10157
60374
       0 00012 0 00252
                               PZE NONEXC .. 10
                                                             14) 0..B.
                                                                                                4F10158
00375
       0 00001 0 00030
                               PZE EIFNO. 1
                                                                 AssE.
                                                                                                4F10159
00376
       0 00000 0 00000
                               PZE **,,**
                                                                 C++P+
                                                                                                4F10160
                                                                                                4F10161
00377
       0 00012 0 00264
                               PZE TSTOPS .. 10
                                                             15) 0,,B.
                                                                                                4F10162
00400
       0 00001 0 00030
                               PZE EIFNO. 1
                                                                                                4F10163
                                                                 AssE.
       0 00000 0 00000
00401
                               PZE **,,**
                                                                 CosP.
                                                                                                4F10164
                                                                                                4F10165
                               PZE CALLFN, 10
00402
      0 00012 0 00276
                                                             16) 0,.B.
                                                                                                4F10166
00403
       0 00001 0 01123
                               PZE CALLNM, 1
                                                                 AssE.
                                                                                                4F10167
00404
      0 00000 0 00000
                               PZE ** , , **
                                                                 C++P+
                                                                                                4F10168
                                                                                                4F10169
00405
       0 00012 0 00310
                               PZE FMTEFN, 10
                                                             17) O.B.
                                                                                                4F10170
00406 0 00001 0 01366
                               PZE SET .. 1
                                                                 AssE.
                                                                                                4F10171
00407 0 00000 0 00000
                               PZE ** + + **
                                                                 C.P.
                                                                                                4F10172
                                                                                                4F10173
                                                             EXPANSION SPACE FOR INTET.
                 00410
                               BSS 3
                                                                                                4F10174
                                    END OF TAPE TABLE PARAMETERS.
                                                                                                4F10175
                                   * *4F10176
                                                                                                4F10177
                                   ....IX/ TABLE PARAMETERS USED BY DRTABS, WHERE
                                                                                                4F10178
                                                             ARG1 = 1ST LOCATION OF ARGUMENT,
                                                                                                4F10179
                                                                  = LENGTH OF ARGUMENT IN WORDS, 4F10180
                                                             TDA = LOC. OF NEXT DRUM ENTRY.
                                                                                                4F10181
                                                                  . NO. OF ENTRIES ON DRUM.
                                                                                                4F10182
                                                             *** = TXL FOR ENTRY SUM TABLES:
                                                                                                4F10183
                                                             *** = TXH FOR BLOCK SUM TAB(FLCN) +4F10184
                                                             FDA = LOC. OF 1ST DRUM ENTRY.
                                                                  = BUFFER CAPACITY IN ENTRIES, 4F10186
                                                             DBL = K*(L+1) FOR ENTRY SUM TABLE:4F10187
                                                             DBL = K*L+1 FOR BLOCK SUM TABLE, 4F10188
                                                                  - DRUM CAPACITY IN ENTRIES.
                                                                                              4F10189
                                                                  = 5 - DRUM NUMBER.
                                                                                                4F10190
                                                                                                4F10191
00413 0 00001 0 01350
                                                             FIXCON) ARG1+L..L
                              PZE G+1++1
                                                                                                4F10192
00414 0 00000 0 00002
                              PZE FIXCON ***
                                                                     TDA .. N
                                                                                                4F10193
00415 -3 00062 0 00002 TXLOP TXL FIXCON .. 50*1
                                                                 *** FDA . . K*L
                                                                                                4F10194
                              PZE 50*2 * 100
00416 . 0 00144 0 00144
                                                                     DBL . . J
                                                                                                4F10195
00417 1 00003 0 02073 FXCNIX TXI ALT ... 5-2
                                                                TXI ALT ...
                                                                                                4F10196
                                                                                                4F10197
00420
       0 00001 0 01350
                                                          FLOCON) ARG1+L,,L
                              PZE G+1,,1
                                                                                                4F10198
      0 00000 0 00312
00421
                              PZE FLOCON , , **
                                                                    TDA
                                                                                                4F10199
00422
      3 00062 0 00312 TXHOP TXH FLOCON .. 50*1
                                                                *** FDA, K*L
                                                                                                4F10200
       0 00702 0 00063
                              PZE 50*1+1,,450
                                                                    DBL
                                                                                                4F10201
00424 1 00003 0 02073 FLCNIX TXI ALT, 5-2
                                                               TXI ALT..I
                                                                                                4F10202
                                                                                                4F10203
00425 0 00002 0 01133
                              PZE E+3+2,,2
                                                          TAU1 } ARG1+L++L
                                                                                               4F10204
00426 0 00000 0 00000
                              PZE TAU1..**
                                                                    TDA .. N
                                                                                               4F10205
00427 -3 00062 0 00000
                              TXL TAU1,,25*2
                                                                *** FDA,,K*L
                                                                                               4F10206
                                                                    DBL
00430 0 00144 0 00113
                              PZE 25*3,,100
                                                                                               4F10207
00431 1 00001 0 02073 TAU11X TXI ALT .. 5-4
                                                                TXI ALT .. I
                                                                                               4F10208
```

					E+3+4,*4 TAU2,*** TAU2,*12*4 12*5,*90 ALT,*5-4 E+3+6,*6 TAU3,** TAU3,* TAU3,** TAU3,			4F10209
A0433 0	00004 0	01135		PZE	E+3+4,,4	TAU2	ARG1+L++L	4F10210
00432 0	00004 0	00454		PZF	TAU2 **		TDA++N	4F10211
00433 0	00000 0	00454		TYL	TA112 4 - 12 * 4	***	FDA K#L	4F10212
00434 -3	00060 0	00454		975	124500		DBL **J	4F10213
00435 0	00132 0	00074	744127V	TVI	12-39990 ALT5-4	TYI	Al Taal	4F10214
00436 1	00001 0	02013	IAUZIA	1 7 1	ML1990-4	,,,,		4F10215
					5.0.	TA112 1	ADG14L and	AF10216
00437 0	00006 0	01137		PZE	E+3+6++6	IAU5 F	TDA H	4F10217
00440 0	00000 0	01356		PZE	TAU3,,**		IDATI	4510511
00441 -3	00060 0	01356		TXL	TAU3++8*6	***	FUA 9 9 K *L	4510210
00442 0	00113 0	00070		PZE	8*7**75		DBL++J	4510219
00443 1	00001 0	02073	TAU31X	TXI	ALT,,5-4	TXI	ALT >> I	4F10220
••••	-		•					4F10221
0 4440	00001 0	01142		PZE	E+11+1++1	SIGMA1)	ARG1+L++L	4F10222
00445 0	00001 0	01230		PZE	SIGMA1+2++1		TDA.N	4F10223
00445 0	00001 0	01236		TXL	SIGMA1 • • 30*1	***	FDA++K*L	4F10224
00446 -3	00036 0	01220		PZF	30*2 • • 30		DBL ++J	4F10225
00447 0	00036 0	00014	51611X	TYI	Al Taa5=2	TXI	ALTeeI	4F10226
00450 1	00003 0	02015	310117	171	NC. 777 E			4F10227
				D75	16422	DIM1 1	ARG1+LasL	4F10228
00451 0	00002 0	01107		225	1CT2992	J 7	TDA N	4F10229
00452 0	00000 0	00310		PZE	DIMISSAM	***	EDA - VIII	4F10220
00453 -3	00000 0	00310	ORGDM1	IXL	DIMISSO	***	DDI I	4F10231
00454 0	00144 0	00000		PZE.	0++100		ALT I	4F10231
00455 1	00002 0	02071	DIM1IX	TXI	DIMALT,,5-3	171	ALI **I	4F10222
								4510233
00456 0	00002 0	01107		PZE	1C+2••2	DIM2)	ARG1+L++L	4F10234
00457 0	00000 0	00764		PZE	DIM2++**		TDAssN	4110235
00460 -3	00000 0	00764	ORGDM2	TXL	DIM2 • • 0	***	FDA++K*L	4F10236
00461 0	00144 0	00000		PZE	0 * * 100		D8L++J	4F10237
00462 1	00002 0	02071	DIM2IX	TXI	DIMALT.,5-3	TXI	ALT ++ I	4F10238
00702 1	00001	020.2					•	4F10239
00463 0	00003 0	01110		PZE	1C+3 • • 3	DIM3)	ARG1+L **L	4F10240
00465 0	000000	01440		PZE	DIM3 · · **		TDA++N	4F10241
00464 0	00000 0	01440	OPCOMS	TYI	DIM3.a0	***	FDA++K*L	4F10242
00465 -3	00000 0	01440	ONGUMS	D7E	090		DBL	4F10243
00466 0	00132 0	00000	014214	TVI	DIMALTA-5-3	TXI	At Tee I	4F10244
00467 1	00002 0	02071	DIMSIX	1 7 1	CHALLETTO	TEDC.	ME: ***	AF10245
					END OF DROM TABLE PARAMET	H H H H		44E10244
					****	* * * *	*****	AF10240
200			. *			- 05 500	TTON NAMES AND DECREES	4F10247
		٠.			COUNT AND BUFFER FOR TABLE	E OF FUND	CIION NAMES AND DEGREES.	4510240
		00470	BK	BSS	1	FORSUB (COUNTER.	4710249
		00471	FORSUB	BSS	100	NAMES A	ND DEGREES OF FUNCTIONS.	4F10250
					END OF FUNCTION COUNT AND) BUFFER	•	4F10251
					* * * * * * * * * * * *	* * * *	* * * * * * * * * * * * *	*4F10252
								4F10253
					PARAMETERS AND BUFFER FOR	COMPILE	INSTRUCTION TABLE.	4F10254
00425 0	00166 0	00000	BS	P7F	PARAMETERS AND BUFFER FOR 9,100 9,** 100 FND OF CIT PARAMETERS AND	CIB CAP	ACITY (4 * 25).	4F10255
00635 0	00144 0	00000	EC	PZF	• • * *	ENTRY CO	DUNT = NO. WORDS IN CIB.	4F10256
00636 0	00000	, 00000	000	DZE		25 COMPI	EMENT OF THE ENTRY COUNT.	4F10257
00637 0	00000 0	00000	RROX	P 6 6	100	COMPTLE	INSTRUCTION BUFFFRA	4F10258
		QD640	CIB	pss	END OF CIT PARAMETERS AND	RUFFER	, indirection political	4F10259
					# # # # # # # # # # # # # # #	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•	
,					*****			4F10261
						04644	ACTURE ARE HEER BY 1 PRIME	
					ALL OF THE ABOVE BUFFERS A	AND PARAM	HEIEKS AKE USED BY I PRIME	4110202

```
4F102625
                        01100
                                        ORG 576
                                                                          COMMON WORKING STORAGE.
                                                                                                                         4F10263
                        01100 ERASE BSS 5
                                                                       COMMON WORKING STORAGE. 4F10264
COMMON WORKING STORAGE. 4F10265
COMMON WORKING STORAGE FOR STATE A.4F10266
                                        BSS 5
                        01105 1C
                                        BSS 1
                        01112 1G
                        01113 26
                                        BSS 1
                        01114 3G
                                        BSS 1
                                                                                                                         4F10268
                        01115 1H
                                        BSS 1
                                                                                                                         4F10269
 01117 3LBAR BSS 1 STORAGE USED BY ARITHMETIC. 4F10270
01120 ARERAS BSS 1 STORAGE USED BY ARITHMETIC. 4F10271
01121 -0 00001 0 00004 ARGCNT MZE 4++1 ARGUMENT COUNTER USED BY C30+C32- 4F10272
01122 ARGCTR BSS 1 STORAGE USED BY ARITHMETIC. 4F10273
01121 -0 00001 U 00004 ARGCTR BSS 1
01122 ARGCTR BSS 1
01123 0 00000 CALLNM PZE ***,***
01124 CHSAVE BSS 1
01125 DIMSAV BSS 1
01126 E BSS 14
01144 EPSM3 BSS 3
01147 EPS BSS 1
01150 EIC BSS 1
01151 EFN BSS 1
01152 F BSS 11
01152 F BSS 11
01331 FIRSTC BSS 1
01332 FSNAME BSS 1
01332 FSNAME BSS 1
01332 GTAG BSS 1
01352 3074000000000 HOLCNT BCD 1H(0000 MCKING STORAGE USED BY C3300 AF10287 AF10286
01352 3074000000000 HOLCNT BCD 1H(0000 MCKING STORAGE USED BY C3300 AF10287 AF10288
                        01353 I
                                        BSS 1
                                                                                                                         4F10290
                                                                           STORAGE USED BY ARITHMETIC.
                                        BSS 3
                        01354 LEFT
                                                                                                                         4F10291
  01357 0 00000 0 00000 LENGTH PZE *****
                                                                STORAGE USED BY ARITHMETIC.
                                                                                                                         4F10292
                                        BSS 1
                        01360 NBAR
                                                                                                                         4F10293
                        01361 N2
                                        BSS 1
                                                                ERASABLE USED BY STATE D.
                                                                 VARIABLE USED BY IOT. 4F10297
REMAINDER OF F-REGION WORD. (C0190) 4F10297
                                                                                                                         4F10294
                        01362 OPNWRD BSS 1
  01363 0 00000 0 00000 PHI(I) PZE *****
  01364 0 00000 0 00010 RAT PZE 8 . . **
                        01365 RESIDU BSS 1
  01366 1 00000 0 00000 SET
                                        PON ..
                                                                                                                         4F10299
                                                                          WORKING STORAGE USED BY SSOOO.
                        01367 SL
                                        BSS 1
                                                                                                                        4F10300
                        01370 SYMBOL BSS 1
                                                                                                                         4F10301
  01371 0 00000 0 00370 TL PZE 31*8 .. **
                                                                                                                         4F10302
  01372 0 00000 0 00000 TLINE PZE **
                                                                             VARIABLE USED BY IOT.
                                            END OF COMMON WORKING STORAGE, BUFFERS, AND PARAMETERS.
                                                                                                                        4F10303
                                             4F10305
                                                                                                                         4F10306
                                             COMMON/2-CONSTANTS USED BY SECTION ONE=
                                                                                                                         4F10307
                                                                                                                         4F10308
                                                                             (1010) - CTEST-11
  01373 +0000000000012
                                        OCT 12
                              TEN
                                                                                                                         4F10309
                                                                             111111 - CTEST-10
                               ENDMK OCT 77
  01374 +0000000000077
                                                                                                                        4F10310
                                                                                      - CTEST-9
                                                                              (
  01375 +000000000074
                               OPEN OCT 74
                                                                                                                         4F10311
                                                                                      - CTEST-8
                             COMMA OCT 73
                                                                    ;
;
=
-
/
  01376 +0000000000073
                                                                                                                         4F10312
                                                                                      - CTEST-7
                            CLOS OCT 34
  01377 +000000000034
                                                                                                                         4F10313
                                                                                      - CTEST-6
                            EQUAL OCT 13
  01400 +000000000013
                                                                                                                         4F10314
                                                                                      - CTEST-5
                            11Z OCT 40
  01401 +0000000000040
                                                                                                                         4F10315
                                                                                      - CTEST-4
                               SLASH OCT 61
  01402 +0000000000061
```

03402	+000000000033	POINT	OCT	33	- CTEST-3	4F10316
	+00000000000000000000000000000000000000	122	oct	• -	+ - CTEST-2	4F10317
-	+000000000054	STAR	OCT		# - CTEST-1	4F10318
01405		CTEST	BSS	- ·	ADDRESS USED FOR INDEXING ABOVE.	4F10319
	01400	Citai	555			4F10320
	00000000000		960	1000000	0	4F10321
01406	000000000000	L(0)	_		1	4F10322
01407	000000000001	L(1)		1000001		4F10323
01410	00000000002	L(2)		1000002	2	4F10324
01411	00000000003	L(3)	_	1000003	3	4F10325
01412	00000000004	L(4)	_	1000004	4	
01413	00000000000	L(5)		1000005	5	4F10326
01414	00000000000	L(6)	BCD	1000006	6	4F10327
01415	000000000007	L(7)	BCD	1000007	7	4F10328
01416	000000000010	L(8)	BCD	1000008	8	4F10329
01417	000000000011	L(9)	BCD	1000009	9	4F10330
	+000000000014	MINUS	OCT	14	•	4F10331
01421	000000000023	L(C)	BCD	100000C	C	4F10332
01422	000000000026	L(F)	BCD	100000F	F	4F10333
01423	00000000000000000	L(H)		100000H	Н	4F10334
	+00000000032	CHAR2	OCT		CONSTANT USED BY CDOOO.	4F10335
01425	000000000000000000000000000000000000000	L(0)		1000000	O (ALPHABETIC)	4F10336
		CHAR3	OCT	-	CONSTANT USED BY CDOOO.	4F10337
	+000000000052	SPECOP		- -	00000\$	4F10338
	+000000000053		OCT		0000000000000	4F10339
	+000000000000	BLANK			S	4F10340
01431	000000000062	L(S)		1000005	Ť	4F10341
01432	00000000063	L(T)	-	100000T		4F10342
01433	000000000067	L(X)	_	100000X	X	4F10343
01434	000000000071	L(Z)	_	100000Z	Z	4F10344
	+00000000072	PM	OCT	, –	RECORD MARK (ILLEGAL) -CD000	4F10345
01436	+000000000100	BIT29	OCT		CONTRACTO DV 107	
01437	+00000000121	A81	DEC	81	CONSTANT USED BY IOT.	4F10346
01440	+000000000140	L(96)	QCT	140	USED BY CO500.	4F10347
01441	+00000000160	L(112)	OCT	160	USED BY CO400.	4F10348
01442	+000000000777	MASK3	OCT	777	-ARITHMETIC.	4F10349
	+000000001000	1E9	OCT	1000	ADDRESS=8	4F10350
01444	000000002174	L(A()	BCD	10000A(INTERNAL FLO-PT VARIABLE PREFIX.	4F10351
01445	000000003074	L(H()	BCD	10000H(4F10352
	000000003174	L(I()	BCD	100001(INTERNAL FXD-PT VARIABLE PREFIX.	4F10353
	+000000006212	SAPSYM				4F10354
	+0000000006712	IFSYM		6712		4F10355
•	+000000007112	CALLER		7112		4F10356
		MASK2		77777	2##15-1 -ARITHMETIC.	4F10357
	+000000077777			400000	TAG=4	4F10358
	+000000400000	2E17		100000	DECREMENT=1	4F10359
	+000001000000	2E18		1000000	CONSTANT USED BY DRTABS.	4F10360
01455	0 00001 0 00001	DECRI		1,000002		4F10361
-	+000001000002			1000002	CONSTANT USED BY IOT.	4F10362
01457	0 00002 0 00000	D2	PZE	914		4F10363
01460	+000002000004				CONSTANT USED BY C3200+	4F10364
01461	0 00003 0 00000		PZE	993	CONSTANT USED BY IOT.	4F10365
01462	+000003077775			3077775	3*2**18+(-3) -ARITHMETIC.	4F10366
01463		D6	PZE		CONSTANT USED BY IOT.	
01464	0 00020 0 00000			••16		4F10367
01465	0 00021 0 00000			••17		4F10368
01466	0 00022 0 00000	DEC18	PZE	,,18		4F10369

		PZ	ACT	32000000	PLUS ZERO -CD000.		4F10370
01467	+000032000000	MASK5		37777600	FEGS EEKO -CDOODS	-ARITHMETIC.	4F10371
	+000037777600					7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,	4F10372
01471	0 00040 0 00000			••32			4F10373
01472				••35	MINUS ZERO -CD000		4F10374
	+000052000000	MZ		52000000	MINOS ZERO -CDUOU	•	
01474	+000200000000			000200000000		• • •	4F10375
01475	0 00220 0 00000			,,144	CONSTANT USED BY		4F10376
01476	0 00300 0 00000	BDA		0.0.192	CONSTANT USED BY	101.	4F10377
01477		5BLANS	BCD	10	006060606060		4F10378
01500	010000000000	Ε(BCD	1100000		-ARITHMETIC.	4F10379
01501	020000000000	1 (BCD	1200000		-ARITHMETIC.	4F10380
01502	03000000000	A (BCD	1300000		-ARITHMETIC.	4F10381
01503	040000000000	P (BCD	1400000	•	-ARITHMETIC.	4F10382
01504	060000000000	01		1600000		-ARITHMETIC.	4F10383
01505	070000000000	χí		1700000		-ARITHMETIC.	4F10384
	+077775077775		_		(-3(*2**18+(-3)	-ARITHMETIC.	4F10385
	+0777777000000	1BAR		77777000000	(2**15-1)*2**18DEC		4F10386
		15P		1585	CONSTANT USED BY		4F10387
	+170000000000			176060606060	20110171111 0020 01 1		4F10388
	+176060606060			200000000000	ADDITION SIGN -ARI	THMETICA	4F10389
	+200000000000				A(INTERNAL FLOAT)		
01513				1410000	MI THILIMAL I LONIT	ING FIR VANIABLE	4F10391
01514		FXFX		1EXP(1			4F10392
01515		FLFX		1EXP(2			
01516	256747740360	FLFL		1EXP(3	I(INTERNAL FIXED	0.5	4F10393
01517	317400000000				I(INTERNAL FIXED	PI ANTABLE	4F10394
01520	-0 00000 0 00000	MINUSO	MZE	0			4F10395
01521	-0 00002 0 00000	DECM12	MZE	••2			4F10396
	-130000000000	ADSPOP	OCT	53000000000	\$00000		4F10397
	-136000000000	DOLSGN	OCT	53600000000	CONSTANT USED BY C		4F10398
	-140000000000	ADSTAR	OCT	-140000000000	MULTIPLICATION SIG	IN -ARITHMETIC.	4F10399
	-145400000000	STRSTR	OCT	-145400000000	EXPONENTIATION SIG	N -ARITHMETIC.	4F10400
01526		BLANKS			606060606060		4F10401
	-377777700000	MASK1	OCT	-377777700000	~(2**20~U.*2**15	-ARITHMETIC.	4F10402
01527	-37777777737	MASK4		-377777777737		-ARITHMETIC.	4F10403
01530	-37777777777	ALL1		-37777777777	END OF STATEMENT W	ORD.	4F10404
61331	-31000	,,					4F10405
01532	212424000000	(ADD)	BCD	1ADD000	SYMBOLIC OPERATION	CODE.	4F10406
				1AL5000	SYMBOLIC OPERATION	CODE.	4F10407
01533				1ANA000	SYMBOLIC OPERATION	CODE	4F10408
01534				1ARS000	SYMBOLIC OPERATION		4F10409
01535				1BSS000	SYMBOLIC OPERATION		4F10410
01536					Officere of Entrice	20024	4F10411
01537				1CAL000	SYMBOLIC OPERATION	CODE	4F10412
01540				1CHS000	SYMBOLIC OPERATION		4F10412
01541	234321000000			1CLA000			
01542				1CLM000	SYMBOLIC OPERATION		4F10414
01543	234362000000	L(CLS)	BCD	1CLS000	SYMBOLIC OPERATION		4F10415
01544	234770000000			1CPY000			4F10416
01545	242363000000			1DCT000	SYMBOLIC OPERATION		4F10417
01546	242524000000			1DED000 ·			4F10418
01547		L(DVP)	BCD	1DVP000	SYMBOLIC OPERATION		4F10419
01550				1FAD000	SYMBOLIC OPERATION	CODE.	4F10420
01551	262447000000			1FDP000	SYMBOLIC OPERATION	CODE.	4F10421
01552	264447000000			1FMP000	SYMBOLIC OPERATION	CODE.	4F10422
-				1FSB000	SYMBOLIC OPERATION	CODE.	4F10423
01553	20022200000						

```
SYMBOLIC OPERATION CODE.
                                                                                                 4F10424
                       L(HPR) BCD 1HPR000
01554
       304751000000
                                                                                                 4F10425
                       L(LDA) BCD 1LDA000
01555
       432421000000
                                                                                                 4F10426
                                                              SYMBOLIC OPERATION CODE.
                       L(LDQ) BCD 1LDQ000
       432450000000
01556
                                                                                                 4F10427
                                                              SYMBOLIC OPERATION CODE.
                       L(LLS) BCD 1LLS000
       434362000000
01557
                                                                                                 4F10428
                                                              SYMBOLIC OPERATION CODE.
                       L(LRS) BCD 1LRS000
       435162000000
01560
                                                                                                 4F10429
                                                              SYMBOLIC OPERATION CODE.
                       L(LXD) BCD 1LXD000
01561
       436724000000
                                                                                                 4F10430
                                                              SYMBOLIC OPERATION CODE.
                       L(MPY) BCD 1MPY000
01562
       444770000000
                                                                                                 4F10431
                                                              SYMBOLIC OPERATION CODE.
                       L(MSE) BCD 1MSE000
       446225000000
01563
                                                                                                 4F10432
                                                              SYMBOLIC OPERATION CODE.
                       L(ORA) BCD 10RA000
       465121000000
01564
                                                                                                 4F10433
                                                              SYMBOLIC OPERATION CODE.
                       L(PSE) BCD 1PSE000
       476225000000
01565
                                                                                                 4F10434
                                                              SYMBOLIC OPERATION CODE.
                       L(PXD) BCD 1PXD000
       476724000000
01566
                                                                                                 4F10435
                                                              CONSTANT USED BY C3200.
                       L(QPR) BCD 1QPR000
       504751000000
01567
                                                                                                 4F10436
                                                              CONSTANT USED BY C3200.
                       L(QXD) BCD 1QXD000
       506724000000
01570
                                                                                                 4F10437
                                                              SYMBOLIC OPERATION CODE.
                       L(STA) BCD 1STA000
       626321000000
01571
                                                                                                 4F10438
                                                              SYMBOLIC OPERATION CODE.
                       L(STO) BCD 1ST0000
01572
       626346000000
                                                                                                 4F10439
                                                              SYMBOLIC OPERATION CODE.
                       L(STQ) BCD 1STQ000
       626350000000
01573
                                                                                                 4F10440
                                                              SYMBOLIC OPERATION CODE.
                       L(SUB) BCD 1SUB000
       626422000000
01574
                                                                                                 4F10441
                                                              SYMBOLIC OPERATION CODE.
                       L(SXD) BCD 1SXD000
       626724000000
01575
                                                                                                 4F10442
                       L(TIX) BCD 1TIX001
01576
       633167000001
                                                                                                 4F10443
                                                              SYMBOLIC OPERATION CODE.
                       L(TOV) BCD 1TOVO00
       634665000000
01577
                                                                                                 4F10444
                                                              SYMBOLIC OPERATION CODE.
                       L(TQO) BCD 1TQ0000
       635046000000
01600
                                                                                                 4F10445
                                                              SYMBOLIC OPERATION CODE.
                       L(TRA) BCD 1TRA000
       635121000000
01601
                                                                                                 4F10446
                                                              SYMBOLIC OPERATION CODE.
                       L(TSX) BCD 1TSX000
       636267000000
01602
                                                                                                 4F10447
                                                              SYMBOLIC OPERATION CODE.
                       L(UFA) BCD 1UFA000
       642621000000
01603
                                    END OF COMMON CONSTANTS USED BY SECTION ONE.
                                                                                                 4F10448
                                   4F10450
                                                                                                 4F10451
                                   COMMON/3-SUBROUTINES USED BY SECTION ONE=
                                                                                                 4F10452
                                                                                            # # #4F10453
                                                                                                 4F10454
                                  C0150+2/ CALLS=C0190+DIAG+C0180+C0160+ CALLER=C0100+
                                                                                                 4F10455
                                  CO150 INSPECTS 1ST NB CHAR STARTING IN MQ. IF NUMERIC. SETS 14F10456
                                  = 0. AND CONVERTS SUCCESSIVE NUMERICS TO BINARY. IF NON-
                                                                                                 4F10457
                                  NUMERIC. SETS I = -0, AND PACKS INTO 1G SUCCESSIVE CHARACTERS4F10458
                                                                                                 4F10459
                                  UNTIL A .() = OR ENDMK IS MET. AND LEFT IN THE AC.
                                                                                                 4F10460
                                                              SAVE THE C(XR2).
                               SXD C015X,2
01604 -0 63400 2 01607 C0150
                                                            * TEST 1ST NON-BLANK CHARACTER
                                                                                                 4F10461
                               TSX C0190,4
       0 07400 4 01707
01605
                                                                                                 4F10462
                                                              FOR NUMERIC OR NON-NUMERIC.
                               CAS L(9)
       0 34000 0 01417
01606
                                                              IF NON-NUMERIC, TRANSFER.
                                                                                                 4F10463
                              TXI C0151,0,**
       1 00000 0 01615 C015X
01607
                                                                                                 4F10464
                                                              IF NUMERIC. THEN
                               NOP
       0 76100 0 00000
01610
                                                                                                 4F10465
                                                           * GO CONVERT TO BINARY.
                               TSX C0180,2
       0 07400 2 01655
01611
                                                              SAVE NEXT NON-NUMERIC CHARACTER.
                                                                                                 4F10466
                               STO 2G
       0 60100 0 01113
01612
                                                                                                 4F10467
                                                              PREPARE TO SET I TO +0.
                               CLA L(0)
       0 50000 0 01406
01613
                                                                                                 4F10468
                                                              GO SET I FOR NUMERIC.
                               TXI C0152,0,**
       1 00000 0 01620
                        FWA
01614
                                                                                                 4F10469
                                                            * ASSEMBLE NON-NUMERICS IN 1G.
       0 07400 2 01624
                       C0151
                              TSX C0160,2
01615
                                                              SAVE PUNCTUATION MARK, AND
                                                                                                 4F10470
                               STO 2G
       0 60100 0 01113
01616
                                                                                                 4F10471
                                                              PREPARE TO SET I TO -0.
                               CLS L(0)
       0 50200 0 01406
01617
                                                                                                 4F10472
                                                              SET I = +0, OR -0.
       0 60100 0 01353 C0152
                              STO I
01620
                                                                                                 4F10473
                                                              PICKUP NEXT CHARACTER,
                               CLA 2G
       0 50000 0 01113
01621
                                                                                                 4F10474
                                                              RESTORE THE C(XR2), AND
                               LXD C015X+2
      -0 53400 2 01607
01622
                                                                                                 4F10475
                                                            * RETURN TO CALLER.
                               TRA 1,2
       0 02000 2 00001
01623
                                                                                                 4F10476
                                    END OF PROGRAM CO150.
                                                                                              * *4F10477
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11 11
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CO160,2/ CALLS=C0190,DIAG. CALLERS=C0100,C0200,C1000,C1200.
                                                                                                 4F10479
                                   C1500,C3000,C3100,C0150.
                                                                                                 4F10480
                                   CO160 ASSEMBLES LEFT-ADJUSTED IN 1G, THE CHAR IN THE AC AND 4F10481
                                   SUCCESSIVE NB CHARS STARTING IN THE MQ, UNTIL A ,()= OR ENDMK4F10482
                                   IS MET AND LEFT IN THE AC. ALSO MARKS END OF WORD WITH A
                                   BLANK, IF LESS THAN 6 CHARACTERS.
                                                                                                 4F10484
01624 -0 63400 2 01631 C0160
                               SXD C016X,2
                                                              SAVE THE C(XR2), AND
                                                                                                 4F10485
                               LXA L(0),2
                                                              SET XR2 TO CONTROL SHIFTING.
01625 0 53400 2 01406
                                                                                                 4F10486
01626 0 60000 0 01112
                               STZ 1G
                                                              CLEAR WORKING STORAGE
                                                                                                 4F10487
01627 0 53400 4 02652 C0161
                               LXA CTESTX 4
                                                             TEST
                                                                                                 4F10488
01630 0 34000 4 01406 C0162
                               CAS CTEST,4
                                                             CHARACTER
                                                                                                 4F10489
01631 1 00000 0 01633 C016X
                               TXI C0163.0.**
                                                             IN THE AC
                                                                                                 4F10490
01632 1 00000 0 01642
                               TXI C0165,0
                                                             AGAINST
                                                                                                 4F10491
                                                                                                4F10492
01633 2 00001 4 01630 C0163 TIX C0162,4,1
                                                             ALL PUNCTUATION.
01634 -3 00036 2 01636
                               TXL C0164,2,30
                                                             IF SYMBOL EXCEEDS 6 CHARACTERS.
                                                                                                 4F10493
01635 0 07400 4 03400
                               TSX DIAG 4
                                                           * GO TO THE DIAGNOSTIC.
                                                                                                4F10494
01636 0 76700 2 00036 C0164
                               ALS 30+2
                                                             BUILD LEFT-ADJUSTED
                                                                                                4F10495
                               ORS 1G
                                                             SYMBOL IN WORKING STORAGE.
01637 -0 60200 0 01112
                                                                                                4F10496
                               TSX C0190,4
                                                           * GET NEXT NB CHARACTER IN THE AC.
01640 0 07400 4 01707
                                                                                                4F10497
01641 1 00006 2 01627
                               TXI C0161.2.6
                                                             UPDATE SHIFT COUNT, AND CONTINUE.
                                                                                                4F10498
01642 3 00000 2 01644 C0165
                               TXH C0167,2,0
                                                             IF PUNCTUATION IS 1ST CHARACTER,
                                                                                                4F10499
01643 0 07400 4 03400 C0166
                               TSX DIAG,4
                                                           * OR ILLEGAL, GO TO THE DIAGNOSTIC.
                                                                                                4F10500
01644 -3 00005 4 01643 C0167 TXL C0166,4,5
                                                             IF LEGAL PUNCTUATION, THEN
                                                                                                4F10501
01645 0 60100 0 01115
                               STO 1H
                                                             SAVE. AND
                                                                                                4F10502
01646 0 50000 0 01430
                               CLA BLANK
                                                             ADD A BLANK
                                                                                                4F10503
01647 0 76700 2 00036
                               ALS 30.2
                                                             TO SYMBOLS THAT ARE LESS
                                                                                                4F10504
                                                             THAN 6 CHARACTERS IN LENGTH.
01650 -0 60200 0 01112
                               ORS 1G
                                                                                                4F10505
                               CLA 1H
                                                             PICKUP PUNCTUATION MARK,
01651 0 50000 0 01115
                                                                                                4F10506
                               LXD C016X,2
                                                             RESTORE THE C(XR2), AND
                                                                                                4F10507
01652 -0 53400 2 01631
01653 0 02000 2 00001
                               TRA 1,2
                                                           * RETURN TO CALLER.
                                                                                                4F10508
                                    END OF PROGRAM CO160.
                                                                                                4F10509
                                                                                               *4F10510
                                                                                                4F10511
                                   C0180,2/ CALLS=C0190,DIAG, CALLERS=C0100,C0200,C0300,C0400, 4F10512
                                   C1000 • C1100 • C1200 • C1400 • C1500 • C0150 •
                                                                                                4F10513
                                   CO180 CONVERTS SUCCESSIVE NUMERICS STARTING IN THE MQ TO
                                                                                                4F10514
                                   BINARY, PLACES RESULT IN 1G, AND LEAVES 1ST NON-NUMERIC IN
                                                                                                4F10515
                                   THE AC. 1ST NUMERIC IS ASSUMED TO BE ALREADY IN THE AC.
                                                                                                4F10516
       0 07400 4 01707 C0180X TSX C0190,4
                                                           * OBTAIN 1ST NUMERIC IN THE AC.
                                                                                                4F105165
                                                             PLACE 1ST NUMERIC IN 1G.
01655 0 60100 0 01112 C0180 STO 1G
                                                                                                4F10517
                                                           * EXAMINE NEXT NON-BLANK CHARACTER.
01656 0 07400 4 01707
                              TSX C0190,4
                                                                                                4F10518
                              CAS L(9)
                                                             AND IF NON-NUMERIC. THEN
       0 34000 0 01417
                                                                                                4F10519
01657
                              TRA 1,2
                                                           * RETURN TO CALLER.
01660 0 02000 2 00001
                                                                                                4F10520
01661 0 76100 0 00000
                              NOP
                                                             IF NUMERIC, THEN
                                                                                                4F10521
01662 0 60100 0 01113
                              STO 2G
                                                             SAVE DIGIT IN 2G.
                                                                                                4F10522
01663 0 50000 0 01112
                              CLA 1G
                                                             MULTIPLY
                                                                                                4F10523
01664 0 76700 0 00002
                              ALS 2
                                                             C(1G)
                                                                                                4F10524
                              ADD 1G
                                                             BY
01665 0 40000 0 01112
                                                                                                4F10525
                                                            10.
                              ALS 1
01666 0 76700 0 00001
                                                                                                4F10526
01667 0 40000 0 01113
                              ADD 2G
                                                             AND ADD CURRENT DIGIT.
                                                                                                4F10527
01670 1 76626 0 01655
                        DCF
                              TXI C0180,0,-F
                                                             REPEAT PROCESS FOR NEXT CHARACTER. 4F10528
                                   END OF PROGRAM C0180.
                                  * * * * * * * * * * * * *
                                                                                            * *4F10530
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4F10478

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4F10531
                                    C0190X+4/ CALLERS=CD000,CB000,CC000,C0300,C3300.
                                    CO190X INITIALIZES CO190 TO OBTAIN 1ST WORD OF FORMULA IN F. 4F10533
       0 50000 0 01670 C0190X CLA DCF
                                                               SET FORMULA WORD
      0 62200 0 01614
                               STD FWA
                                                               ADDRESS = -(F-REGION ADDRESS) +
                                                                                                   4F10535
01673 -0 63400 0 01724
                                SXD CHCTR+0
                                                               SET CHARACTER COUNT = 0.
                                                                                                   4F10536
01674 0 02000 4 00001
                               TRA 194
                                                             * RETURN TO MAIN ROUTINE.
                                                                                                   4F10537
                                    END OF PROGRAM C0190X.
                                                                                                   4F10538
                                                                                                 *4F10539
                                                                                                   4F10540
                                   C0390,4/ CALLERS=C0300,C3300.
                                                                                                   4F10541
                                   CO390 INSERTS THE CHARACTER IN THE AC INTO THE 1ST POSITION
                                                                                                  4F10542
                                   TO THE LEFT OF THAT DEFINED BY FWA AND XR1.
                                                                                                  4F10543
                               CLA ENDMK
       0 50000 0 01374 C0390
                                                              PREPARE TO CHANGE
                               LXD FWA,2
                                                              THE PROPER CHARACTER
                                                                                                  4F10545
01676 -0 53400 2 01614
01677 -0 53400 1 01724
                               LXD CHCTR+1
                                                              IN THE F-REGION.
                                                                                                  4F10546
01700 -2 00001 1 01703
                               TNX C0393,1,1
                                                              ADJUST MASK
                                                                                                  4F10547
01701 -0 76300 0 00006 C0392
                               LGL 6
                                                              TO POSITION
                                                                                                  4F10548
                               TIX C0392,1,1
       2 00001 1 01701
                                                              CHARACTER.
01702
                                                                                                  4F10549
COM
                                                              INVERT MASK, AND
                                                                                                  4F10550
                               ANS -1.2
                                                              ERASE PROPER CHARACTER•
01704 0 32000 2 77777
                                                                                                  4F10551
01705 -0 76300 0 00044
                               LGL 36
                                                              ADJUST CHARACTER, AND
                                                                                                  4F10552
                               ORS -1,2
                                                              INSERT IN ERASED POSITION.
01706 -0 60200 2 77777
                                                                                                  4F10553
                                   CO390 CONTINUES BY USING CO190.
                                                                                                  4F10554
                                                                                                  4F10555
                                   C0190,4/ CALLERS=CD000,CB000,CC000,C0100,C0200,C0300,C0400,
                                                                                                  4F10556
                                   C0900 • C1000 • C1100 • C1200 • C1400 • C1500 • C1600 • C3000 • C3100 • C3200 • 4F10557
                                   C3300, C3400, C0150, C0160, C0180, S5000, ROYCNV, RSC, LPR.
                                                                                                  4F10558
                                   CO190 OBTAINS IN AC THE NEXT NON-BLANK CHARACTER OF FORMULA. 4F10559
01707 -0 63400 1 01723 C0190
                               SXD C0194,1
                                                              SAVE THE C(XR1) + AND
                                                                                                  4F10560
                               LXD CHCTR:1
                                                              SET XR1 = CHARACTER COUNT.
                                                                                                  4F10561
01710 -0 53400 1 01724
                               LDQ RESIDU
                                                              PICK UP ANY REMAINING CHARACTERS.
                                                                                                  4F10562
01711
       0 56000 0 01365
                                                              IF NONE,
01712 2 00001 1 01720 C0191
                              TIX C0193,1,1
                                                                                                  4F10563
                                                              PICK UP NEXT FORMULA
01713 -0 53400 1 01614
                               LXD FWA,1
                                                                                                  4F10564
                                                              WORD FROM F-REGION.
01714
      0 56000 1 00000
                               LDQ 0,1
                                                                                                  4F10565
     1 77777 1 01716
                               TXI C0192,1,-1
                                                              AND INCREASE
                                                                                                  4F10566
01716 -0 63400 1 01614 C0192
                               SXD FWA.1
                                                              FORMULA WORD ADDRESS BY 1.
                                                                                                  4F10567
                               LXA L(6) ,1
                                                              RESET XR1 FOR 6 NEW CHARACTERS.
                                                                                                  4F10568
01717
       0 53400 1 01414
01720 -0 75400 0 00000 C0193
                               PXD •0
                                                              EXAMINE
                                                                                                  4F10569
01721 -0 76300 0 00006
                               LGL 6
                                                              NEXT CHARACTER
                                                                                                  4F10570
                                                              AND COMPARE WITH A BLANK.
01722 0 34000 0 01430
                               CAS BLANK
                                                                                                  4F10571
01723
      1 00000 0 01725 C0194
                               TXI C0195,0,**
                                                              IF BLANK.
                                                                                                  4F10572
      1 00000 0 01712 CHCTR
                               TXI C0191,0,**
                                                              GO EXAMINE NEXT CHARACTER.
                                                                                                  4F10573
                               SXD CHCTR:1
                                                              IF NOT BLANK, RESET CHAR COUNT,
                                                                                                  4F10574
01725 -0 63400 1 01724 C0195
                               STQ RESIDU
                                                              SAVE ANY REMAINING CHARACTERS,
                                                                                                  4F10575
01726 -0 60000 0 01365
                               LXD C0194,1
                                                              RESTORE THE C(XR1), AND
                                                                                                  4F10576
01727 -0 53400 1 01723
                                                            * RETURN TO MAIN ROUTINE.
01730
      0 02000 4 00001
                               TRA 1,4
                                                                                                  4F10577
                                    END OF PROGRAM CO190.
                                                                                                  4F10578
                                                                                                 *4F10579
                                                                                                  4F10580
                                   CIT00.4/ CALLERS=C0200,C0400,C0900,C1000,C1100,C1300,C1600,
                                                                                                  4F10581
                                  C3200+RDC+WBT+RBT+WRD+BRW+EFT+LPR+CMA+EMK+INPUT(OUTPUT)+
                                                                                                  4F10582
                                   ETMSW(LTMSW) + LIB + VRA(VRD) .
                                                                                                  4F10583
                                  CITOO MAKES ENTRIES IN THE COMPILED INSTRUCTION TABLE. WHEN 4F10584
```

```
THE BUFFER IS FULL IT IS WRITTEN AS A RECORD ONTO TAPE 3.
                                DIM.SR.4/ CALLS=DIAG. CALLERS=C1200,SS000,CMA.
DIM.SR SEARCHS THE DIMENSION TABLES. ENTRANCE ...
DIM2SR, OR DIM2SD ACCOUNTY
                                         4F10620
                                                                                                               4F10621
                                         DIM.SR SEARCHS THE DIMENSION TABLES. ENTRANCE IS TO DIMISR. 4F10622
                                         DIM2SR. OR DIM3SR ACCORDING TO THE DIMENSION. 4F10623
DIM1SR= ENTRY POINT FOR 1 DIMENSION TABLE. 4F10624
 01771 -0 63400 4 01774 DIM1SR SXD DMSR00;4 SAVE THE C(XR4) FOR RETURN; 4F10625
01772 -0 53400 4 00452 LXD DIM1IX-3;4 SET XR4 = NUMBER OF ENTRIES IN DIM14F10626
01773 0 50000 0 00453 CLA ORGDM1 AND PICK UP 1ST ADDRESS OF DIM1 TO 4F10627
01774 1 00000 0 02000 DMSR00 TXI DMSR01;0;** GO SET DRUM ADDRESS. 4F10628
01775 -0 63400 4 01774 DIM2SR ENTRY POINT FOR 2 DIMENSION TABLE. 4F10629
```

4F10585

2005 -0 \$3400 4 01774 DIMSER SXD DMSR00-4 2006 -0 \$35000 0 00465						· · ·				CAVE THE CAVEAL FOR RETURN.	4F10639
02007 0 33400 0 00455 CLA DISSA-3-4 02017 0 02100 0 00455 CLA DISSA-3-4 02011 0 02100 0 02104 SLA DISSA-3-4 02012 0 02100 0 02204 SLA DISSR-3 02012 0 02100 0 02204 SLA DISSR-3 02014 0 0200 0 02031 DISSR-2 SLA DISSR-3 02014 0 0200 0 02031 DISSR-2 SLA DISSR-3 02015 0 0200 0 02031 DISSR-2 SLA DISSR-3 02016 -3 00000 0 02047 TLL DISSR-3-5 02016 -3 00000 0 02047 TLL DISSR-3-5 02017 -0 03400 0 01031 DISSR-3 02017 -0 03400 0 01031 DISSR-3 02018 0 03400 0 01031 DISSR-3 02020 0 03400 0 01031 DISSR-3 02021 -0 03400 0 01031 DISSR-3 02021 -0 03400 0 01031 DISSR-3 02021 -0 03400 0 01031 DISSR-3 02022 0 03400 0 01031 DISSR-3 02022 0 03400 0 0103 DISSR-3 02023 0 03400 0 0103 DISSR-3 02024 DISSR-3 02025 0 03400 0 0103 DISSR-3 02025 0 03400 0 0103 DISSR-3 02025 0 03400 0 0103 DISSR-3 02026 DISSR-3 02027 0 04000 0 0100 DISSR-3 02027 0 04000 0 0100 DISSR-4 02028 DISSR-4 02029 0 04000 0 0100 DISSR-4 02020 0 04000 0 0100 DISSR-4 02020 DISSR-4	02005	-0	63400	4 017	74 [DIM3SR	SXD	DMSR00+4		CET YOU - NUMBER OF ENTRIES IN DIM	34F10640
02010 0 50000 0 00465 CLA ORGOMS 02010 0 02100 0 10104 STA DRHADER 02011 0 50000 0 01763 CLA DRHADER 02012 0 62100 0 02016 STA DRHADER 02012 0 62100 0 02016 STA DRHADER 02013 0 62000 0 02016 STA DRHADER 02013 0 62000 0 02016 STA DRHADER 02013 0 60000 0 02016 STA DRHADER 02014 0 60000 0 02016 STA DRHADER 02015 0 60000 0 02016 STA DRHADER 02015 0 60000 0 02014 STA DRHADER 02016 -3 00000 4 02024 TTA DRHADER 02017 0 63400 4 02004 STA DRHADER 02017 0 63400 4 02035 DRHADER 02017 0 63400 4 02000 CHAPTER 02017 0 04000 0 0100 DRHADER 02017 0 04000 0 0100	02006	-0	53400	4 004	64		LXU	DIM31X-394		AND DICK HO IST ADDRESS OF DIME TO	4F10641
22010 0 \$2100 0 \$1104 STA DRANDR 22011 0 \$0000 0 01763 CLA DMSR98 22011 0 \$0000 0 01763 CLA DMSR98 22011 0 \$0000 0 01763 CLA DMSR98 22011 0 \$0000 0 02041 STA DMSR15 22014 0 \$0200 0 \$02041 STA DMSR15 22014 0 \$0200 0 \$0201 DMSR02 SLY DMSR03 ST DMSR05 FOR DIM3. 22015 0 \$0200 0 \$02004 SLY DMSR05 ST DMSR05 ST DMSR05 FOR DIM3. 22016 0 \$0200 0 \$02004 SLY DMSR05 ST DMSR05	02007	0	50000	0 004	65		CLA	ORGDM3		AND PICK UP 151 ADDRESS OF DIMS TO	4F10642
20211 0 50000 0 01763 CLA DMSR98 20212 0 20100 0 20241 STA DMSR15 DMSR0 FOR DIM3 4F10644 20213 -0 50000 0 0 20266 CAL DMCN3 (CPY D3) 20214 0 60200 0 20231 DMSR02 STA DMSR05 ST DY CODES ACCORDING 4F10646 20215 0 60200 0 20247 TXL DMSR05 ST DY CODES ACCORDING 4F10646 20217 -0 63400 4 02047 TXL DMSR06 ST DY CODES ACCORDING 4F10646 20217 -0 63400 4 02047 TXL DMSR06 ST DY CODES ACCORDING 4F10646 20210 0 53400 4 01413 DMSR14 XAL (5)1-4 20210 -0 53400 4 01413 DMSR14 XAL (5)1-4 20212 -0 53400 4 02035 DMSR13 SXD DMSR11-4 20224 0 53400 4 02035 DMSR13 SXD DMSR12-4 20225 -0 53400 4 02030 TRR 3 20226 0 50400 0 01103 DMSR0 FRR 3 20226 0 50400 0 01104 DMSR06 ST ERROR COUNTER, AND 4F10652 20230 0 604000 0 01105 DMSR06 PY D12 20230 0 70400 0 01102 DMSR06 PY D12 20231 0 70400 0 0100 CMSR05 PY D12 20231 0 70400 0 01102 DMSR06 PY D12 20231 0 70400 0 01102 DMSR06 PY D12 20233 0 70400 0 01100 CAS DRSYM 20233 0 70400 0 01100 DMSR06 PY D12 20234 0 70400 0 01000 CMSR15 ST DMSR06 SP DRSYM 20235 1 00400 0 01100 CAS DRSYM 20236 0 70400 0 01000 CMSR15 ST DMSR06 SP DRSYM 20237 0 70400 0 01000 DMSR05 ST DMSR06 SP DRSYM 20238 0 70400 0 01000 DMSR05 ST DMSR06 SP DRSYM 20239 0 70400 0 01000 DMSR06 SP D12 20239 0 70400 0 01000 DMSR07 PY DRSYM 20239 DMSR06 SP D12 20239	02010	0	62100	0 011	.04		STA	DRMADR		SET DRUM ADDRESS.	4F10642
20213 - 0 62100 0 02041 STA DMSR15 (CPY D3)	02011	0	50000	0 017	63		CLA	DMSR98		SET LOOP ADDRESS TO	4510643
20213 -0 50000 0 02026 CAL DMCN3 20214 -0 60200 0 02021 DMSR02 SLV DMSR05 20216 -0 60200 0 02024 SLV DMSR05 20216 -3 00000 4 02024 SLV DMSR05 20217 -0 63400 4 10143 DMSR14 XAL (51) +4 20217 -0 63400 4 02024 SXD DMSR013 SXD DMSR11;4 20212 -0 53400 4 02035 DMSR13 SXD DMSR11;4 20212 -0 53400 4 02035 DMSR13 SXD DMSR12;4 20203 0 75400 0 01130 CLA E+2 20203 0 75400 0 01130 CLA E+2 20204 0 70000 0 01100 DMSR05 SET	02012	٥	62100	0 020	41		STA	DMSR15		DMSR05 FOR DIM3.	4F10644
A	02013	- 0	50000	0 020	66		CAL	DMCN3		(CPY D3)	4F10645
Name	02015	Õ	60200	0 020	31 [DMSR02	SLW	DMSR05		SET OP CODES ACCORDING	4F10646
2016 - 3 0000	02014	~	60200	0 020		J	SIW	DMSR07		TO DIMENSION.	4F10647
2017 - 0 63400 4 0203	02015	Ž	00200	6 020	47		TVI	DMSPOR -4 -0		IF TABLE IS EMPTY. GO OUT.	4F10648
02020 0 53400 4 02004	02019	-3	00000	4 020	4 (IVE	DMSRV0 14 10		SAVE ENTRY COUNT IN CASE OF ERRORA	4F10649
02021 - 0 53400 4 01413 DMSR12 LX LTS1,44 02022 - 0 53400 4 02004 LXD DMSR12+4 02022 - 0 53400 4 02004 LXD DMSR12+4 02023 - 0 76200 0 03030 RDR 3 02024 0 50000 0 01100 LDA DRMADR 02025 0 76000 0 01100 DMSR04 CPY DRSYM 02026 0 70000 0 01100 DMSR04 CPY DRSYM 02030 0 70000 0 01102 DMSR05 CPY DRSYM 02031 0 00000 0 01102 DMSR05 PZE D3 02032 0 70000 0 01102 DMSR05 PZE D3 02033 0 34000 0 01102 DMSR05 CAS DRSYM 02033 0 34000 0 01100 CPY DRSYM 02035 0 70000 0 01100 DMSR04 CPY DRSYM 02036 0 70000 0 01100 DMSR05 CAS DRSYM 02037 0 10000 0 02051 DMSR12 TXI DMSR0990+** 02039 1 00000 0 01100 DMSR05 CPY DRSYM 02031 0 00000 0 01100 DMSR05 CPY DRSYM 02031 0 00000 0 01100 DMSR05 CPY DRSYM 02031 0 00000 0 01100 DMSR05 CPY DRSYM 02035 0 70000 0 01100 DMSR05 CPY DRSYM 02036 0 70000 0 01100 DMSR05 CPY DRSYM 02037 0 10000 0 02043 TL0 DMSR06 CPY D12 02040 0 70000 0 01101 DMSR05 CPY D12 02040 0 0 00000 0 01102 DMSR05 CPY D12 02040 0 0 00000 0 00000 CPY CRCSM 02040 0 0 00000 0 00000 CPY CRCSM 00000 0 00000 0	02017	-0	63400	4 020	04		270	UMSRI194		SET EDDAD COUNTED FOR 5 ATTEMPTS.	4F10650
2021 - 0 63400 4 02004 DNSR12 5XD DMSR12 5XD DMSR12 54	02020	0	53400	4 014	13 [DMSR14	LXA	L(5)94		CAVE EDBOD COUNTED. AND	4F10651
02022 - 0 53400 4 02004	02021	-0	63400	4 020	35 [DMSR13	SXD	DMSR12+4		SAVE ERROR COUNTERS AND	4F10652
20224 0 76200 0 00303 RDR 3 20224 0 50000 0 01130 CLA E+2 20225 0 46000 0 01100 DMSR04 CPY DRSYM 20207 0 04000 0 02043 TL0 DMSR06 CPY DRSYM 20203 0 70000 0 01101 CPY D12 20203 0 70000 0 01101 CPY D12 20203 0 70000 0 01100 CRS CPY DRCKSM 20203 0 70000 0 01100 CAS DRSYM 20203 0 70000 0 01100 CRS DRSYM 20203 0 70000 0 01100 CPY DRCKSM 20203 0 70000 0 01100 CRS DRSYM 20203 0 70000 0 01100 CPY DRSYM 20203 0 70000 0 01100 DMSR07 PZE D3 20204 0 70000 0 01101 DMSR06 CPY D12 20204 0 70000 0 01101 DMSR08 LXD DMSR00,4+1 20204 0 70000 0 01100 DMSR09 CAL DRSYM 20204 0 76000 0 00100 DMSR09 CAL DRSYM 20205 0 76000 0 01100 DMSR09 CAL DRSYM 20205 0 76000 0 00100 DMSR09 CAL DRSYM 20205 0 76000 0 01100 DMSR09 CAL DRSYM 20205 0 76000 0 00100 DMSR09 CA	02022	-0	53400	4 020	04		LXD	DMSR11+4		RESEL ENIKY COUNTS	4F106F2
02024 0 50000 0 01100	02023	0	76200	0 003	03		RDR	3		SELECT DRUM.	4510655
DAD CURRENT DRUM ADDRESS, AND	02024	0	50000	0 011	30		CLA	E+2		GET NAME OF VARIABLE.	4710654
02026 0 70000 0 011010 DMSR04 CPY DRSYM 02027 0 04000 0 02043 TLQ DMSR06 COMP RE WITH NAME OF VARIABLE, AND 4F10657 02030 0 70000 0 01102 DMSR05 PZE D3 02032 0 70000 0 01103 CPY DRCKSM 02033 0 34000 0 01100 CAS DRSYM 02034 0 70400 4 03400 TSX DIAG44 F10660 02035 1 00000 0 02051 DMSR12 TXI DMSR09.0.** 02036 0 70000 0 01100 CPY DRSYM 02036 0 70000 0 01100 CPY DRSYM 02036 0 70000 0 01100 CPY DRSYM 02037 0 04000 0 02043 TLQ DMSR06 02040 0 70000 0 01101 CPY D12 UNTIL FNOT EQUAL, THEN 4F10666 02037 0 04000 0 02043 TLQ DMSR06 02040 0 70000 0 01101 CPY D12 UNTIL FNOT EQUAL, THEN 4F10666 02041 2 00001 4 00000 DMSR15 TIX **,441 TABLE 02044 0 00000 0 01102 DMSR06 CPY D12 02045 0 70000 0 01102 DMSR06 CPY D12 02046 0 00000 0 01102 DMSR06 CPY D12 02047 0 00000 0 01102 DMSR06 CPY D12 02046 0 00000 0 01102 DMSR08 LXD DMSR00,4 CND TABLE 02047 0 53400 4 01774 DMSR08 LXD DMSR00,4 CND TABLE 02051 0 02000 4 00001 TX AL D3 02055 0 36100 0 01101 ACL D12 02054 0 76000 0 00006 COM 02055 0 36100 0 01101 ACL D12 02056 0 76000 0 00006 COM 02057 0 36100 0 01102 DMSR08 CPM 02059 0 0 00000 0 00006 COM 02059 0 0 00000 0 00006 COM 02050 0 00000 0 00000 0 00006 COM 02050 0 0 00000 0 00000 0 00000 COM 02050 0 0 00000 0 00000 COM 02050 0 0 000000 0 00000 COM 02050 0 00000 0 00000 COM 02050 0 00000 0 00000 COM 02050 0 00000 0 00000	02025	0	46000	0 011	04		LDA	DRMADR		LOAD CURRENT DRUM ADDRESS, AND	4F10655
COMPARE WITH NAME OF VARIABLE, AND 4F10657 COMPARE WITH NAME OF VARIABLE, AND 4F10657 COMPARE WITH NAME OF VARIABLE, AND 4F10658 COMPARE WITH NAME OF VARIABLE, AND 4F10659 COMPARE DRIM SYMBOL WITH NAME OF VARIABLE, AND 4F10659 COMPARE DRIM SYMBOL WITH NAME OF VARIABLE, AND 4F10659 COMPARE DRIM SYMBOL WITH NAME OF VARIABLE, AND 4F10659 COMPARE DRIM SYMBOL WITH NAME OF VARIABLE, AND 4F10659 COMPARE DRIM SYMBOL WITH NAME OF VARIABLE, AND 4F10659 COMPARE DRIM SYMBOL WITH NAME OF VARIABLE, AND 4F10659 COMPARE DRIM SYMBOL WITH NAME OF VARIABLE, AND 4F10659 COMPARE DRIM SYMBOL WITH NAME OF VARIABLE, AND 4F10659 COMPARE DRIM SYMBOL WITH NAME OF VARIABLE, AND 4F10659 COMPARE DRIM SYMBOL WITH NAME OF VARIABLE, AND 4F10659 COMPARE DRIM SYMBOL WITH NAME OF VARIABLE, AND 4F10659 COMPARE DRIM SYMBOL WITH NAME OF VARIABLE, AND 4F10659 COMPARE DRIM SYMBOL WITH NAME OF VARIABLE, AND 4F10659 COMPARE DRIM SYMBOL WITH NAME OF VARIABLE, AND 4F10659 COMPARE DRIM SYMBOL WITH NAME OF VARIABLE, AND 4F10659 COMPARE DRIM SYMBOL WITH NAME OF VARIABLE, AND 4F10659 COMPARE DRIM SYMBOL WITH NAME OF VARIABLE, AND 4F10659 COMPARE DRIM SYMBOL WITH NAME OF VARIABLE, AND 4F10659 COMPARE DRIM SYMBOL WITH NAME OF VARIABLE, AND 4F10659 COMPARE DRIM SYMBOL WITH NAME OF VARIABLE, AND 4F10659 COMPARE DRIM SYMBOL WITH NAME OF VARIABLE, AND 4F10659 COMPARE DRIM SYMBOL WITH NAME OF VARIABLE, AND 4F10659 COMPARE DRIM SYMBOL WITH NAME OF VARIABLE, AND 4F10659 COMPARE DRIM SYMBOL WITH NAME OF VARIABLE, AND 4F10659 COMPARE DRIM SYMBOL WITH NAME OF VARIABLE, AND 4F10659 COMPARE DRIM SYMBOL WITH NAME OF VARIABLE, AND 4F10659 COMPARE DRIM SYMBOL WITH NAME OF VARIABLE, AND 4F10659 COMPARE DRIM SYMBOL WITH NAME OF VARIABLE, AND 4F10659 COMPARE DRIM SYMBOL WITH NAME OF VARIABLE, AND 4F10659 COMPARE DRIM SYMBOL WITH NAME OF VARIABLE, AND 4F10659 COMPARE DRIM SYMBOL	02026	ō	70000	0 011	00 [DMSR04	CPY	DRSYM		COPY DRUM SYMBOL.	4F10656
2030 0 70000 0 01101	02020	ň	0000	0 020	43		TLQ	DMSR06		COMPARE WITH NAME OF VARIABLE, AND	4F10657
DIM AND DIM STZ DIM3 CPY DASHO	02021	ñ	70000	0 011	01		CPY	D12		IF NOT LESS, COPY N1 AND N2.	4F10658
02031 0 70000 0 01102 DNCN2 CPY DRCKSM 02033 0 34000 0 01100 CAS DRSYM 02034 0 77000 0 01100 CAS DRSYM 02035 1 00000 0 02051 DNSR12 TXI DMSR09+0,*** 02036 0 70000 0 01100 CPY DRSYM 02037 0 04000 0 01100 CPY DRSYM 02037 0 04000 0 01101 CPY D12 02040 0 70000 0 01101 CPY D12 02041 2 00001 4 00000 DMSR15 TIX ***,4-1 I TMSR08+0 02042 1 00000 0 01101 DMSR06 CPY D12 02042 1 00000 0 01101 DMSR06 CPY D12 02044 0 00000 0 01101 DMSR06 CPY D12 02045 0 70000 0 01101 DMSR06 CPY D12 02046 2 00001 4 02026 TIX DMSR04+4-1 02047 -0 53400 4 01774 DMSR08 LXD DMSR09,4 02050 0 02000 4 00001 TRA 1,4 02051 -0 50000 0 01101 DMSR09 CAL DRSYM 02052 0 36100 0 01101 ACL D12 02053 0 36100 0 01101 ACL D12 02054 0 76000 0 00006 COM 02055 0 36100 0 01101 ACL D12 02056 0 76000 0 00006 COM 02057 0 10000 0 02063 TZE DMSR12+4 02061 0 00000 4 02021 TIX DMSR12+4 02061 0 00000 4 02021 TIX DMSR12+4 02062 0 07400 4 03400 TSX DIAG+4 02063 -0 53400 4 02021 TIX DMSR10+4 02064 0 02000 4 00002 TRA 2,4 02065 0 60000 0 01102 DMCN12 STZ D3 02066 0 70000 0 01102 DMCN12 STZ D3 02066 0 70000 0 01102 DMCN12 STZ D3 02066 0 70000 0 01102 DMCN12 STZ D3 02067 456351000000 RYE BCD INTROOO 02070 477125000000 NZE BCD INTROOO 0	02030	Š	00000	0 011	02 F	DMSDAS	D7F	D3		(DIM1 AND DIM2 = STZ . DIM3 = CPY)	4F10659
2032 0 34000 0 01100 CAS DRSYM 20234 0 07400 4 03400 TSX DIAG,4 20235 1 00000 0 02051 DMSR12 TXI DMSR09s0,** 20236 0 70000 0 01101 CPY DRSYM 20206 0 70000 0 01101 DMSR06 CPY D12 20206 0 70000 0 01101 DMSR05 CPY D12 20207 0 02004 0 00000 DMSR15 TIX ***,4*1 TABLE 4F10668 202041 2 00001 4 00000 DMSR15 TIX ***,4*1 TABLE 4F10668 202043 0 70000 0 01102 DMSR06 CPY D12 202044 0 00000 0 01102 DMSR07 PZE D3 202045 0 70000 0 01102 DMSR07 PZE D3 202047 0 00001 4 02026 TIX DMSR04,4*1 202047 -0 53400 4 01774 DMSR08 LXD DMSR04,4*1 202051 -0 50000 0 01100 DMSR05 CPX 202052 0 36100 0 01101 DMSR06 CDM 202053 0 36100 0 01102 DMSR09 CAL DRSYM 202054 0 76000 0 00106 COM 202055 0 36100 0 01102 ACL D3 202056 0 76000 0 00006 COM 202057 0 10000 0 02063 TZE DMSR10 20206 0 76000 0 00006 COM 202057 0 10000 0 02063 TZE DMSR10 20206 0 76000 0 00006 COM 202057 0 10000 0 02063 TZE DMSR10 20206 0 76000 0 00006 COM 202057 0 10000 0 02021 TIX DMSR12,4 20206 0 76000 0 00006 COM 202057 0 10000 0 02021 TIX DMSR12,4 20206 0 76000 0 00006 COM 202057 0 10000 0 02021 TIX DMSR12,4 20206 0 76000 0 00006 COM 202057 0 10000 0 02021 TIX DMSR12,4 20206 0 76000 0 00006 COM 202057 0 10000 0 02021 TIX DMSR12,4 20206 0 76000 0 00006 COM 202057 0 10000 0 02021 TIX DMSR13,4+1 20206 0 76000 0 01102 DMCN12 STZ D3 20206 0 70000 0 01102 D	02031	ŭ	70000	0 011	02 1	DEIGINOS	COV	DDCKEM		CORY CHECKSUM.	4F10660
02033 0 074000 4 03400 0 CAS MSTAN 02034 0 074000 4 03400 DMSR12 TXI DMSR09+0+** 02035 1 00000 0 010100 CPY DRSYM CONTINUE 4F10663 02036 0 70000 0 01101 CPY DRSYM CONTINUE 4F10663 02040 0 70000 0 01101 DMSR06 CPY D12 UNTIL 4F10666 02041 0 00000 0 02043 TXI DMSR08+0 TXI DMSR09+14+1 TXI DMSR08+0 TXI DMSR09+14+1 TXI DMSR08+0 TXI DMSR09+14+1 TXI DMSR08+0 TXI DMSR09+14+1 TXI DMSR08+14+1 TXI DMSR08+14+1 TXI DMSR08+14+1 TXI DMSR08+14+1 TXI DMSR09+14+1 TXI	02032	Ū	70000	0 011	03.		CAS	DRCKSM		COMPARE DRUM SYMBOL WITH NAME OF VA	4F10661
02034 0 07400 4 03400 1 TSX DMSR09 0 *** 02036 0 70000 0 02051 DMSR12 TXI DMSR09 0 *** 02037 0 04000 0 02043	02033	Ð	34000	0 011	00		CAS	DRSIM		CO TO DIACHOSTIC - MACHINE EDPOP.	4F10662
02035 1 00000 0 02051 DMSR12 TXI DMSR09,0\$* 02036 0 70000 0 01101	02034	0	07400	4 034	00		TSX	DIAG 94	*	TO NOT COURT THEN	4F10663
02036 0 70000 0 01100 CPY DRSYM CONTINUE \$7,10669 02040 0 70000 0 02043 TLO DMSR06 PROCESS \$4,10665 02040 0 70000 0 01101 CPY D12 UNTIL \$4,10666 02041 2 00001 4 00000 DMSR15 TIX **,4+1 TABLE \$4,10666 02041 2 00000 0 02047 TXI DMSR08,0 IS EXHAUSTED. \$4,10668 02043 0 70000 0 01101 DMSR06 CPY D12 PASS OVER ENTRY \$4,10670 02045 0 70000 0 01102 DMSR07 PZE D3 (DIM1 AND DINZ = STZ, DIM3 = CPY). \$4,10670 02045 0 70000 0 01103 CPY DRCKSM AND CHECKSUM, AND AND CHECKSUM, AND \$4,10671 02046 2 00001 4 02026 TIX DMSR04,4+1 REPEAT LOOP. \$6,10672 02047 -0 53400 4 01774 DMSR08 LXD DMSR09.4 FINANCE AND \$4,10672 02051 -0 50000 0 01100 DMSR09 CAL DRSYM COMPUTE A RESTORE THE C(XR4), AND \$4,10673 02052 0 36100 0 01101 ACL D12 NEW AF10676 02054 0 76000 0 00006 COM DRSW \$4,10679 02055 0 36100 0 01102 ACL D3 NEW AF10676 02055 0 36100 0 01103 ACL DRCKSM COMPUTE A NEW AF10679 02055 0 36100 0 01103 ACL DRCKSM COMPARE WITH \$4,10679 02055 0 36100 0 01103 ACL DRCKSM COMPARE WITH \$4,10679 02055 0 36100 0 01103 ACL DRCKSM COMPARE WITH \$4,10679 02056 0 76000 0 00006 COM DRWSR12,4 REPEAT ATTEMPT, \$4,10681 02060 -0 53400 4 02035 LXD DMSR12,4 REPEAT ATTEMPT, \$4,10681 02061 2 00001 4 02021 TIX DMSR13,4+1 UNLESS PROCESS 02062 0 74000 4 03400 TSX DIAG,4 *TAKE FOUND EXIT O MAIN ROUTINE. \$4,10681 02063 -0 53400 4 01774 DMSR10 LXD DMSR09,4 TAKE FOUND EXIT O MAIN ROUTINE. \$4,10681 02066 0 70000 0 01102 DMCN3 CPY D3 CONSTANT USED BY DIM-SR. \$4,10689 02066 0 70000 0 01102 DMCN3 CPY D3 CONSTANT USED BY DIM-SR. \$4,10689 02067 456351000000 RNZ BCD INTRODO VARIABLE USED BY FL. \$4,10691 02067 477125000000 NZE BCD INTRODO VARIABLE USED BY FL. \$4,10691 02067 477125000000 NZE BCD INTRODO VARIABLE USED BY FL. \$4,10691	02035	1	00000	0 020	51 [DMSR12	TXI	DMSR09 +0 + **		IF NOT EQUALS THEN	4F10464
O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	02036	0	70000	0 011	00		CPY	DRSYM		CONTINUE	4510004
02040 0 70000 0 01101 CPY D12 TABLE 4F10665 02041 2 00001 4 00000 DMSR15 TIX **,4,1 TABLE 4F10668 02042 1 00000 0 02047 TX1 DMSR08,0 TX1 DMSR09,4 TX1 DMSR10,4 TX1 DMSR13,4,1 TX1 DMSR10,4	02037	0	04000	020	43		TLQ	DMSR06		PROCESS	4F10665
TABLE	02040	0	70000	011	01		CPY	D12		UNTIL	4F 10666
1	02041	2	00001	4 000	00 0	DMSR15	TIX	**,4,1		TABLE	4F10667
02044 0 00000 0 01101 DMSR06 CPY D12 02044 0 00000 0 01102 DMSR07 PZE D3 02046 2 00001 4 02026 02047 -0 53400 4 01774 DMSR08 LXD DMSR00,4 02050 0 02000 4 00001 02051 -0 50000 0 01100 DMSR09 CAL DRSYM 02052 0 36100 0 01101 02053 0 36100 0 01102 ACL D3 02055 0 36100 0 01103 ACL DRCKSM 02055 0 36100 0 01103 ACL DRCKSM 02055 0 36100 0 01103 ACL DRCKSM 02056 0 76000 0 00006 COM 02057 0 10000 0 02063 TZE DMSR10 02057 0 10000 0 02063 TZE DMSR10 02050 0 05400 4 02021 TIX DMSR12,4 02064 0 02004 0 00002 TXA DMSR10 LXD DMSR12,4 02064 0 02004 0 00002 TXA DMSR00,4 02055 0 53400 4 01774 DMSR10 LXD DMSR10,4 02056 0 76000 0 00006 COM 02057 0 10000 0 02063 TZE DMSR10 02066 0 70400 4 03400 TSX DIAG,4 02056 0 76000 0 00006 TSX DIAG,4 02057 0 53400 4 01774 DMSR10 LXD DMSR00,4 02057 0 10000 0 02063 TZE DMSR10 TSX DIAG,4 02066 0 70400 4 03400 TSX DIAG,4 02066 0 753400 4 01774 DMSR10 LXD DMSR00,4 02066 0 753400 4 01774 DMSR10 LXD DMSR00,4 02067 0 53400 4 01774 DMSR10 LXD DMSR00,4 02068 0 60000 0 01102 DMCN12 STZ D3 02066 0 750000 0 01102 DMCN12 STZ D3 02066 0 75000 0 01102 DMCN12 STZ D3 02067 456351000000 ENT BCD INTRO00 WARIABLE USED BY DIM.SR. 02067 477125000000 RZE BND OF PROGRAM DIM.SR. 02067 477125000000 RZE BND OF PROGRAM DIM.SR. 02068 477125000000 RZE BND OF PROGRAM DIM.SR. 02069 477125000000 RZE BND OF PROGRAM DIM.SR. 02060 4771250000000 RZE BND OF PROGRAM DIM.SR.	02042	1	00000	020	47		TXI	DMSR08+0		IS EXHAUSTED.	4F10668
02044 0 00000 0 01102 DMSR07 PZE D3	A2042	ā	70000	011	01 0	DMSR06	CPY	D12		PASS OVER ENTRY	4F10669
02045 0 70000 0 01103	02045	ň	00000	011	02 0	DMSR07	PZE	D3		(DIM1 AND DIM2 = STZ+ DIM3 = CPY).	4F10670
02046 2 00001 4 02026	02044	٨	70000	011	02		CPY	DRCKSM		AND CHECKSUM, AND	4F10671
02047 -0 53400 4 01774 DMSR08 LXD DMSR00;4 02050 0 02000 4 00001 TRA 1,4 * TAKE NOT FOUND EXIT. 4F10673 02051 -0 50000 0 01100 DMSR09 CAL DRSYM COMPUTE A 4F10675 02052 0 36100 0 01101 ACL D12 NEW 4F10676 02053 0 36100 0 01102 ACL D3 LOGICAL CHECKSUM 4F10677 02054 0 76000 0 00006 COM FOR ENTRY, AND 4F10678 02055 0 36100 0 01103 ACL DRCKSM COMPARE WITH 4F10679 02056 0 76000 0 00006 COM DRUM CHECKSUM. 4F10680 02057 0 10000 0 02063 TZE DMSR10 IF NOT EQUAL, THEN 4F10681 02060 -0 53400 4 02035 LXD DMSR12;4 REPEAT ATTEMPT; 4F10682 02061 2 00001 4 02021 TIX DMSR13;4;1 UNLESS PROCESS 02062 0 07400 4 03400 TSX DIAG;4 * FAILED 5 TIMES IN READING DRUM. 4F10684 02063 -0 53400 4 01774 DMSR10 LXD DMSR00;4 RESTORE THE C(XR4); AND 4F10686 02064 0 02000 4 00002 TRA 2,4 * TAKE FOUND EXIT TO MAIN ROUTINE. 4F10686 02065 0 60000 0 01102 DMCN12 STZ D3 CONSTANT USED BY DIM.SR. 4F10688 02066 0 70000 0 01102 DMCN12 STZ D3 CONSTANT USED BY DIM.SR. 4F10688 02067 456351000000 ENT BCD INTRO00 VARIABLE USED BY FL. 4F10690 02070 477125000000 NZE BCD IPZE000 VARIABLE USED BY FL. 4F10690	02045	3	20000	011	26		TIX	DMSR04.4.1		REPEAT LOOP.	4F10672
02050 0 02000 4 00001 TRA 1,4 * TAKE NOT FOUND EXIT. 4F10674 02051 -0 50000 0 01100 DMSR09 CAL DRSYM COMPUTE A F10675 02052 0 36100 0 01101 ACL D12 NEW 4F10676 02053 0 36100 0 01102 ACL D3 LOGICAL CHECKSUM 4F10677 02054 0 76000 0 00006 COM FOR ENTRY, AND 4F10678 02055 0 36100 0 01103 ACL DRCKSM COMPARE WITH 4F10679 02056 0 76000 0 00006 COM DRUM CHECKSUM. 4F10679 02056 0 76000 0 00006 COM DRUM CHECKSUM. 4F10680 02057 0 10000 0 02063 TZE DMSR10 IF NOT EQUAL, THEN 4F10681 02060 -0 53400 4 02035 LXD DMSR12,44 REPEAT ATTEMPT. 4F10681 02061 2 00001 4 02021 TIX DMSR13,4,1 UNLESS PROCESS 4F10683 02062 0 07400 4 03400 TSX DIAG,4 * FAILED 5 TIMES IN READING DRUM. 4F10684 02063 -0 53400 4 01774 DMSR10 LXD DMSR00,4 RESTORE THE C(XR4), AND 4F10685 02064 0 02000 4 00002 TRA 2,4 * TAKE FOUND EXIT TO MAIN ROUTINE. 4F10686 02065 0 60000 0 01102 DMCN12 STZ D3 CONSTANT USED BY DIM.SR. 4F10688 02066 0 70000 0 01102 DMCN12 STZ D3 CONSTANT USED BY DIM.SR. 4F10689 02067 456351000000 ENT BCD INTRO00 VARIABLE USED BY FL. 4F10690 02070 4771250000000 NZE BCD IPZE000 END OF PROGRAM DIM.SR. 4F10692	02046	~	504001	. 020	74.5	DMCDAR	1 10	DMSDAA.4		RESTORE THE C(XR4) . AND	4F10673
02050 0 02000 4 00001 TRA 114	02047	-0	53400	4 01/	14 6	UMSKUO		DM3R0094	*	TAVE NOT FOUND FYIT.	4F10674
02051 -0 50000 0 01100 DMSR09 CAL DRSYM 02052 0 36100 0 01101 ACL D12 NEW 4F10676 02053 0 36100 0 01102 ACL D3 LOGICAL CHECKSUM 4F10677 02054 0 76000 0 00006 COM FOR ENTRY, AND 4F10678 02055 0 36100 0 01103 ACL DRCKSM COMPARE WITH 4F10679 02056 0 76000 0 00006 COM DRW CHECKSUM, 4F10680 02057 0 10000 0 02063 TZE DMSR10 IF NOT EQUAL, THEN 4F10680 02057 0 10000 0 02063 LXD DMSR12,4 REPEAT ATTEMPT, 4F10682 02061 2 00001 4 02021 TIX DMSR13,4,1 REPEAT ATTEMPT, 4F10682 02062 0 07400 4 03400 TSX DIAG,4 RESTORE THE C(XR4), AND 4F10684 02063 -0 53400 4 01774 DMSR10 LXD DMSR00,4 RESTORE THE C(XR4), AND 4F10684 02064 0 02000 4 00002 TRA 2,4 * TAKE FOUND EXIT TO MAIN ROUTINE. 4F10686 02066 0 70000 0 01102 DMCN12 STZ D3 CONSTANT USED BY DIM.SR. 4F10688 02067 456351000000 ENT BCD INTRO00 VARIABLE USED BY FL. 4F10690 02070 477125000000 NZE BCD IPZE000 END OF PROGRAM DIM.SR. 4F10692	02050	0	02000	4 000	01		IKA	194	-	COMPUTE A	4F10675
02052 0 36100 0 01101 ACL D12 02053 0 36100 0 01102 ACL D3 02054 0 76000 0 00006 COM 02055 0 36100 0 01103 ACL DRCKSM 02056 0 76000 0 00006 COM 02057 0 10000 0 02063 TZE DMSR10 IF NOT EQUAL, THEN 4F10680 02057 0 10000 0 02063 TIX DMSR12,44 REPEAT ATTEMPT, 4F10681 02060 -0 53400 4 02035 LXD DMSR12,44 REPEAT ATTEMPT, 4F10682 02061 2 00001 4 02021 TIX DMSR13,4+1 UNLESS PROCESS 4F10683 02062 0 07400 4 03400 TSX DIAG,4 FAILED 5 TIMES IN READING DRUM. 4F10684 02063 -0 53400 4 01774 DMSR10 LXD DMSR00,4 RESTORE THE C(XR4), AND 4F10685 02064 0 02000 4 00002 TRA 2,4 * TAKE FOUND EXIT TO MAIN ROUTINE. 4F10686 02065 0 60000 0 01102 DMCN12 STZ D3 CONSTANT USED BY DIM.SR. 4F10688 02066 0 70000 0 01102 DMCN3 CPY D3 CONSTANT USED BY DIM.SR. 4F10689 02067 456351000000 ENT BCD INTRO00 VARIABLE USED BY IO AND FL. 4F10691 02070 4771250000000 NZE BCD IPZE000 VARIABLE USED BY FL. 4F10692	02051	-0	50000	011	00 0	DMSR09	CAL	DRSYM		COMPUTE A	4F10676
02053 0 36100 0 01102 ACL D3 02054 0 76000 0 00006 COM 02055 0 36100 0 01103 ACL DRCKSM 02056 0 76000 0 00006 COM 02057 0 10000 0 02063 TZE DMSR10 IF NOT EQUAL, THEN 4F10680 02057 0 10000 0 2063 LXD DMSR12,4 REPEAT ATTEMPT, 4F10681 02060 -0 53400 4 02035 LXD DMSR12,4 REPEAT ATTEMPT, 4F10682 02061 2 00001 4 02021 TIX DMSR13,4,1 UNLESS PROCESS 4F10683 02062 0 07400 4 03400 TSX DIAG,4 FAILED 5 TIMES IN READING DRUM. 4F10684 02063 -0 53400 4 01774 DMSR10 LXD DMSR00,4 RESTORE THE C(XR4), AND 4F10686 02064 0 02000 4 00002 TRA 2,4 * TAKE FOUND EXIT TO MAIN ROUTINE. 4F10686 02065 0 60000 0 01102 DMCN12 STZ D3 CONSTANT USED BY DIM.SR. 4F10688 02066 0 70000 0 01102 DMCN3 CPY D3 CONSTANT USED BY DIM.SR. 4F10689 02067 456351000000 ENT BCD INTRO00 VARIABLE USED BY IO AND FL. 4F10690 02070 4771250000000 NZE BCD 1PZE000 END OF PROGRAM DIM.SR. 4F10692	02052	0	36100 (011	01		ACL	D12		NEW CHECKELIN	4F10677
02054 0 76000 0 00006 COM COMPARE WITH 4F10678 02055 0 36100 0 01103 ACL DRCKSM COMPARE WITH 4F10680 02057 0 10000 0 02063 TZE DMSR10 IF NOT EQUAL, THEN 4F10681 02060 -0 53400 4 02035 LXD DMSR12,4 REPEAT ATTEMPT; 4F10682 02061 2 00001 4 02021 TIX DMSR13,4,1 UNLESS PROCESS 4F10683 02062 0 07400 4 03400 TSX DIAG,4 FAILED 5 TIMES IN READING DRUM. 4F10684 02063 -0 53400 4 01774 DMSR10 LXD DMSR00,4 FAILED 5 TIMES IN READING DRUM. 4F10686 02064 0 02000 4 00002 TRA 2,4 *TAKE FOUND EXIT TO MAIN ROUTINE. 4F10686 02065 0 60000 0 01102 DMCN12 STZ D3 CONSTANT USED BY DIM.SR. 4F10688 02066 0 70000 0 01102 DMCN3 CPY D3 CONSTANT USED BY DIM.SR. 4F10689 02067 456351000000 ENT BCD 1NTR000 VARIABLE USED BY IO AND FL. 4F10690 02070 477125000000 NZE BCD 1PZE000 END OF PROGRAM DIM.SR. 4F10692	02053	0	36100 (011	02		ACL	D3		LOGICAL CHECKSUM	4510470
02055 0 36100 0 01103	02054	0	76000	000	06		COM			FOR ENTRY, AND	47 106 78
02056 0 76000 0 00006 COM 02057 0 10000 0 02063 TZE DMSR10 IF NOT EQUAL, THEN 4F10681 02060 -0 53400 4 02035 LXD DMSR12,4 REPEAT ATTEMPT, 4F10682 02061 2 00001 4 02021 TIX DMSR13,4,1 UNLESS PROCESS 02062 0 07400 4 03400 TSX DIAG,4 FAILED 5 TIMES IN READING DRUM. 02063 -0 53400 4 01774 DMSR10 LXD DMSR00,4 RESTORE THE C(XR4), AND 4F10684 02064 0 02000 4 00002 TRA 2,4 * TAKE FOUND EXIT TO MAIN ROUTINE. 02065 0 60000 0 01102 DMCN12 STZ D3 CONSTANT USED BY DIM.SR. 4F10688 02066 0 70000 0 01102 DMCN3 CPY D3 CONSTANT USED BY DIM.SR. 4F10689 02067 456351000000 ENT BCD 1NTRO00 VARIABLE USED BY IO AND FL. 4F10690 02070 477125000000 NZE BCD 1PZE000 END OF PROGRAM DIM.SR. 4F10692	02055	0	36100 (011	03		ACL	DRCKSM		COMPARE WITH	4F10679
02057 0 10000 0 02063 TZE DMSR10 IF NOT EQUAL, THEN 4F10681 02060 -0 53400 4 02035 LXD DMSR12,4 REPEAT ATTEMPT, 4F10682 02061 2 00001 4 02021 TIX DMSR13,4,1 UNLESS PROCESS 4F10683 02062 0 07400 4 03400 TSX DIAG,4 FAILED 5 TIMES IN READING DRUM. 02063 -0 53400 4 01774 DMSR10 LXD DMSR00,4 RESTORE THE C(XR4), AND 4F10685 02064 0 02000 4 00002 TRA 2,4 *TAKE FOUND EXIT TO MAIN ROUTINE. 4F10686 02065 0 60000 0 01102 DMCN12 STZ D3 CONSTANT USED BY DIM.SR. 4F10688 02066 0 70000 0 01102 DMCN3 CPY D3 CONSTANT USED BY DIM.SR. 4F10689 02067 456351000000 ENT BCD INTROOD VARIABLE USED BY IO AND FL. 4F10690 02070 477125000000 NZE BCD 1PZE000 END OF PROGRAM DIM.SR. 4F10692	02055	0	76000	000	06		COM			DRUM CHECKSUM.	4F10680
02060 -0 53400 4 02035	02056	ň	10000	000	63		TZF	DMSR10		IF NOT EQUAL. THEN	4F10681
02061 2 00001 4 02021 TIX DMSR13,441 UNLESS PROCESS 4F10683 02062 0 07400 4 03400 TSX DIAG,4 FAILED 5 TIMES IN READING DRUM. 02063 -0 53400 4 01774 DMSR10 LXD DMSR00,4 RESTORE THE C(XR4), AND 4F10685 02064 0 02000 4 00002 TRA 2,4 ** TAKE FOUND EXIT TO MAIN ROUTINE. 02065 0 60000 0 01102 DMCN12 STZ D3 CONSTANT USED BY DIM.SR. 4F10688 02066 0 70000 0 01102 DMCN3 CPY D3 CONSTANT USED BY DIM.SR. 4F10689 02067 456351000000 ENT BCD 1NTR000 VARIABLE USED BY IO AND FL. 4F10690 02070 477125000000 NZE BCD 1PZE000 VARIABLE USED BY FL. 4F10692	02057	- ^	53400 V	020	35		IXD	DMSR12.4		REPEAT ATTEMPT.	4F10682
02062 0 07400 4 03400 TSX DIAG,4 FAILED 5 TIMES IN READING DRUM. 02063 -0 53400 4 01774 DMSR10 LXD DMSR00,4 RESTORE THE C(XR4), AND 4F10685 02064 0 02000 4 00002 TRA 2,4 TAKE FOUND EXIT TO MAIN ROUTINE. 02065 0 60000 0 01102 DMCN12 STZ D3 CONSTANT USED BY DIM.SR. 4F10688 02066 0 70000 0 01102 DMCN3 CPY D3 CONSTANT USED BY DIM.SR. 4F10689 02067 456351000000 ENT BCD 1NTR000 VARIABLE USED BY IO AND FL. 4F10690 02070 477125000000 NZE BCD 1PZE000 VARIABLE USED BY FL. 4F10692	02060	-0	22400	4 UZU	23		TIX	DMSR13-4-1		UNLESS PROCESS	4F10683
02063 -0 53400 4 01774 DMSR10 LXD DMSR00+4 02064 0 02000 4 00002 TRA 2+4 * TAKE FOUND EXIT TO MAIN ROUTINE. 4F10686 02065 0 60000 0 01102 DMCN12 STZ D3 CONSTANT USED BY DIM.SR. 4F10688 02066 0 70000 0 01102 DMCN3 CPY D3 CONSTANT USED BY DIM.SR. 4F10689 02067 456351000000 ENT BCD 1NTR000 VARIABLE USED BY IO AND FL. 4F10690 02070 477125000000 NZE BCD 1PZE000 VARIABLE USED BY FL. 4F10692	02061	2	07400	4 O24	00		TSX	DIAG.4	. #	FAILED 5 TIMES IN READING DRUM.	4F10684
02064 0 02000 4 00002 TRA 2,4 * TAKE FOUND EXIT TO MAIN ROUTINE. 4F10686 02065 0 60000 0 01102 DMCN12 STZ D3 CONSTANT USED BY DIM.SR. 4F10688 02066 0 70000 0 01102 DMCN3 CPY D3 CONSTANT USED BY DIM.SR. 4F10689 02067 456351000000 ENT BCD 1NTRO00 VARIABLE USED BY IO AND FL. 4F10690 02070 477125000000 NZE BCD 1PZE000 VARIABLE USED BY FL. 4F10692	02062	v	52400	, 034	76 5	NED1A	1 40	DMSP00.A		RESTORE THE C(XR4) . AND	4F10685
02064 0 02000 4 00002 TRA 2.44 4F10687 02065 0 60000 0 01102 DMCN12 STZ D3 CONSTANT USED BY DIM.SR. 4F10688 02066 0 70000 0 01102 DMCN3 CPY D3 CONSTANT USED BY DIM.SR. 4F10689 02067 456351000000 ENT BCD 1NTRO00 VARIABLE USED BY IO AND FL. 4F10690 02070 477125000000 NZE BCD 1PZE000 VARIABLE USED BY FL. 4F10692	02063	-0	53400	+ 01/	14 L	DEI 2K TO	TO	2 - A	*	TAKE FOUND EXIT TO MAIN ROUTINE.	4F10686
02065 0 60000 0 01102 DMCN12 STZ D3 CONSTANT USED BY DIM.SR. 4F10688 02066 0 70000 0 01102 DMCN3 CPY D3 CONSTANT USED BY DIM.SR. 4F10689 02067 456351000000 ENT BCD 1NTR000 VARIABLE USED BY IO AND FL. 4F10690 VARIABLE USED BY FL. 4F10691 02070 477125000000 NZE END OF PROGRAM DIM.SR. 4F10692	02064	0	02000	+ 000	02		IKA	277	-	THE LAND PAST TO LIVER MONTHER	4F10687
02065								22		CONSTANT HISED BY DIM SD.	4F10688
02066 0 70000 0 01102 DMCN3 CPY D3 CONSTANT USED BY DIM-SK- 4F10689 02067 456351000000 ENT BCD 1NTR000 VARIABLE USED BY IO AND FL- 4F10690 02070 477125000000 NZE BCD 1PZE000 VARIABLE USED BY FL- 4F10692	02065	0	60000	011	02 C	DMCN12	STZ	03		CONCIANT HEED BY DIM CO	4F10490
02067 456351000000 ENT BCD 1NTR000 VARIABLE USED BY 10 AND FL. 4F10690 VARIABLE USED BY FL. 4F10691 END OF PROGRAM DIM.SR. 4F10692	02066	0	70000	011	02 0	DMCN3	CPY	D3		CONSTANT USED BY DIMOSKO	4E104007
02070 477125000000 NZE BCD 1PZE000 VARIABLE USED BY FL• 4F10691 END OF PROGRAM DIM.SR. 4F10692	02067	45	6351000	0000	ε	ENT	BCD	1NTR000		VARIABLE USED BY TO AND FL.	4610630
END OF PROGRAM DIM.SR. 4F10692	02070	47	7125000	0000	N	NZE	BCD	1PZE000		VARIABLE USED BY FL.	47 10691
	•							END OF PROGRAM DIM.SR.			41 10692

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DRTABS(,4)/ CALLS=RDRX,DIAG. CALLERS=C1200,SS000,ROYCNV,CMA, 4F10695
                                         VRA(VRD).
                                         DRTABS IS CALLED BY TSX ....IX.4 -WHERE .... IS THE NAME OF 4F10697
                                         THE DRUM TABLE REFERRED TO. DRTABS MAKES ENTRIES IN THE DRUM 4F10698
                                         TABLES. AND ALSO SEARCHES THE DRUM TABLES FOR INFORMATION. 4F10699
 02071 -0 50000 0 00415 DIMALT CAL TXLOP PICK UP SWITCH CONTROL;
02072 1 00000 0 02074 TXI DRTABS;0 AND GO SET SWITCH FOR DIM TABLES.
                                                                                                             4F10701
AND GO SET SWITCH FOR DIM TABLES. 4F10702
                                         ALT= ENTRY POINT FOR ALL OTHER DRUM TABLES. 4F10703
                                                               X
X
IF DIM TABLE, SKIP SEARCH.
TE TABLE IS EMPTY.
 02136 -3 00000 2 02150 TXL XERR01+1,2,0
02137 -0 53400 1 02360 LXD NAR,1
02140 -0 63400 2 02223 SXD NC,2
02141 -0 63400 2 02143 SXD ADD01,2
 02141 -0 63400 2 02143 SXD NC+2
02142 -2 00001 1 02235 ADD02 TNX COMPR+1+1 COMPUTES (N*L)+
02143 1 00000 2 02142 ADD01 TXI ADD02+2+**
02144 -0 53400 2 02362 BUFFM1 LXD FDA+2
02145 -0 53400 1 02363 BUFFM1 LXD FDA+2
                                                                                                                 4F10740
                                                                                                                 4F10741
                                                                                                                 4F10742
                                                                                                                4F10743
                                                                                                                4F10744
                                                                                                              4F10745
                                                                                                                 4F10746
  02145 -0 53400 1 02363 BUFF LXD DBL+1
```

	02146	2	00000	1	02150		TIX	BUFF+3,1,**	(N) TEST FOR TABLE OVERFLOWS	4F10747
	02147	1	00000	0	02256	XERR01	TXI	MHICH+0	SO FIND OUT WHICH TABLE OVER EDUCATI	4F10749
	02150	-0	53400	1	02364		LXD	DI + 1		4F10750
	02151	0	76600	1	00305		WDR	591	ENTRY CHM-TYL - BLOCK SUM-TYH-	4F10751
	02152	-3	00000	0	02174	S₩	TXL	EBLK + O	CALD TE TABLE IS EMPTY	4F10752
	02153	-3	00000	2	02156		TXL	ADD04+2+0	SKIP IF TABLE 15 CHIFTTE	4F10753
	02154	1	00001	2	02155		TXI	ADD03,2,1	CATO TE BLOCK IS NOT ALL FILLS	4F10754
	02155	-2	00062	2	02163	ADD03	INX	ADD05+2+50	STADT NEW BLOCK CHECKSIMA	4F10755
	02156	0	60000	0	02365	ADD04	SIZ	DUMP	CHANGE CHECKSIM ADDRESS.	4F10756
	02157	0	50000	0	02361		CLA	TDA	CHANGE CHECKSON ADDRESS	4F10757
	02160	0	62100	0	02362		STA	FDA	SET ENTRY ADDR = CHECKSUM ADDR +1.	4F10758
	02161	0	40000	0	01407		ADD	L(1)	SET ENTRY ADDR - CHECKSON ADDR 120	4F10759
	02162	0	62100	0	02361		STA	TDA		4F10760
	02163	-0	50000	0	02365	ADD05	CAL	DUMP	ADD NEW ELOCON TO	4F10761
	02164	0	36100	0	01347		ACL	G	CHECKSIM FOR THIS BLOCK	4F10762
	02165	0	60200	0	02365		SLW	DUMP	CHECKSOFI FOR THIS BEOCKS	4F10763
•	02166	Q	46000	0	02362		LDA	FDA	MOTTE BLOCK CHECKSHIM ON DRIMA	4F10764
	02167	6	70000	0	02365		CPY	DUMP	WRITE BEOCK CHECKSON ON SHORE	4F10765
	02170	0	76600	1	00305		WDR	5,1		4F10766
	02171	0	46000	0	02361		LDA	TDA	WOLTE NEW ELOCON ON DRIMA	4F10767
	02172	0	70000	0	01347		CPY	G	CO UDDATE ELOCON DAPAMETER.	4F10768
	02173	1	00000	0	02205	XR2	IXI	NOW IN + O + **	EAD ALL TABLES FYCEDT FLOCON=	4F10769
	02174	-0	75400	0	00000	EBLK	PXD	•0	FOR ALL TABLES EXCEPT TEOCON-	4F10770
	02175	-0	53400	2	02360		LXD	NAR • Z	HEYT DOIN ENTRY ADDRESS.	4F10771
	02176	0	46000	0	02361		LDA	TDA	TE 1 - 1-	4F10772
	02177	-2	00001	2	02202	· · · · · ·	TNX	ESUM2,2,1	IF L = IF	4F10773
	02200	-0	70000	2	00000	ESUM1	CAD	** 9 2	ENTRY ON BRIM.	4F10774
	02201	2	00001	2	02200		TIX	ESUM1,2,1	IADGIAL-11	4F10775
	02202	-0	70000	0	00000	ESUM2	CAU	**	COMPUTE AND	4F10776
	02203	0	60200	0	02365		SLW	DUMP	WOLTE CHECKSUM FOR NEW ENTRY.	4F10777
	02204	0	70000	0	02365		CPY	DUMP	INDIATE PERMANENT	4F10778
	02205	-0	50000	0	02360	NOWIN	CAL	NAK	DADAMETERS FOR FNTRY	4F10779
	02206	0	77100	0	00022		AKS	18	HIST ADDED TO TARIFA	4F10780
	02207	0	40000	0	01455		ADD	DECKI	IF TARLE WAS FLOCON.	4F10781
	02210	-3	00000	0	02212	RX4	IXL	KA4+29U9**	DEAD HIST.	4F10782
	02211	0	40200	0	01407		SOR	L(1)	N-N+1-TDA+(1+1) OR (L)4	4F10783
	02212	0	40100	0	02361		AUM	IDA	1 1 Y = 2 1	4F10784
	02213	0	60100	0	00000	UPDATE	510	## *DA 3	: / N S	4F10785
	02214	-0	53400	2	02361	45 4	LXU	IUA 9 Z	GET TAG AND EXITA	4F10786
	02215	1	00000	0	02247	XK4	1 X I	001909**	OCT THE ARE ENTITE	4F10787
	02216	-0	53400	4	02223	NXBLK	LXD	NC 94	: (F#1) . K = K .	4F10788
	02217	-0	53400	2	02362		LXD	FUA 9 2	1 / 1 \	4F10789
	02220	-0	53400	1	02360	NEW	LXD	NAK 91	(ADG141)	4F10790
	02221	0	50000	1	00000	TRY	CLA	##91	IRITED OF CTARL I	4F10791
	02222	0	34000	2	00000	BUFL	CAS	##92	NOT FOUND.	4F10792
	02223	1	00000	0	02225	NC	171	MCT29U9**	K#L = K#L-1a	4F10793
	02224	1	77777	2	02242		TAI	DISEMIAAT	N = N-1 OR ITEM NOT IN TABLE.	4F10794
	02225	-2	00001	4	02144		INA	NCAA-1		4F10795
	02226	-0	63400	1	02227		370	内にてヤナル NEW。フェギギ	K = K-1.	4F10796
	02227	2	00000	2	02220		117	NC.A	SAVE CURRENT VALUE OF No	4F10797
	02230	-0	63400	4	02223		CAL	NC FT	AND GET NEW BLOCK	4F10798
	02231	-0	50000	0	02363		VAL	DDL	title of the second	4F10799
	02232	0	40100	0	02362		CTA	EDA		4F10800
	02233	0	62100	0	02362		SIA	FUA .	(N) TEST FOR TABLE OVERFLOWS GO FIND OUT WHICH TABLE OVERFLOWED ENTRY SUM=TXL. BLOCK SUM=TXH. SKIP IF TABLE IS EMPTY. SKIP IF BLOCK IS NOT YET FULL. START NEW BLOCK CHECKSUM. CHANGE CHECKSUM ADDRESS. SET ENTRY ADDR = CHECKSUM ADDR +1. ADD NEW FLOCON TO CHECKSUM FOR THIS BLOCK. WRITE BLOCK CHECKSUM ON DRUM. GO UPDATE FLOCON PARAMETER. FOR ALL TABLES EXCEPT FLOCON= (L) NEXT DRUM ENTRY ADDRESS. IF L = 1, (ARG1+L-1) WRITE NEW ENTRY ON DRUM. (ARG1+L-1) COMPUTE AND WRITE CHECKSUM FOR NEW ENTRY. UPDATE PERMANENT PARAMETERS FOR ENTRY JUST ADDED TO TABLE. IF TABLE WAS FLOCON, READJUST. N=N+1,TDA=TDA+(L+1) OR (L). (***C********************************	

```
4F10801
02234 -0 53400 2 02241
                              LXD NTL 2
                                                                                                4F10802
                                                             (K*L)
02235 2 00000 2 02237 COMPR TIX COMPR+2,2,**
                                                             K*L = (N*L)MOD K*L IF N*L IS
                                                                                                4F10803
                              SXD FDA,2
02236 -0 63400 2 02362
                                                             LESS THAN K*L, OTHERWISE K*L = K*L.4F10804
02237 -0 63400 2 02241
                              SXD NTL+2
                                                           * GO READ NEXT BLOCK INTO BUFFER.
                              TSX RDRX+4
02240 0 07400 4 02520
                                                             (N*L,N*L-K*L,N*L-2*K*L, ***(N*L)MOD 4F10806
02241 1 00000 0 02216 NTL
                              TXI NXBLK,0,**
                                                             K#L). TEST NEXT WORD OF ARG. L=L-1.4F10807
                              TIX TRY 1 1
02242 2 00001 1 02221 YEA
                                                                                                4F10808
                              LXD TDA . 2
                                                             (N)
02243 -0 53400 2 02361
                                                                                                4F10809
                              SXD YEA+3+4
02244 -0 63400 4 02245
                                                             COMPUTE TAG.
                                                                                                4F10810
02245 2 00000 2 02247
                              TIX OUT 2 ***
                                                                                                4F10811
                              LXA L(0),2
02246 0 53400 2 01406
                                                                                                4F10812
                                                             EXIT WITH TAG IN THE AC.
02247 -0 75400 2 00000 OUT
                              PXD •2
                                                             (TAG = NUMBER OF ENTRIES
                                                                                                4F10813
                              ARS 18
02250 0 77100 0 00022
                                                                                                4F10814
                                                            WHICH PRECEED THE ENTRY
02251 -0 53400 2 02173
                              LXD XR2,2
                                                            WHICH EQUALS THE ARGUMENT.
                                                                                                4F10815
02252 -0 53400 4 02215
                              LXD XR4,4
                                                             RESTORE THE C(XR1+XR2+XR4)+
                                                                                                4F10816
                              LXD XR1+1
02253 -0 53400 1 02535
                                                                                                4F10817
                                                             RESTORE THE C(MQR), AND
                              LDQ MQ
02254 0 56000 0 02357
                                                                                                4F10818
                                                           * RETURN TO MAIN ROUTINE.
                              TRA 1,4
02255 0 02000 4 00001
                                                                                                4F10819
02256 -0 53400 4 02215 WHICH LXD XR4+4
                                                             GET ALPHA BAR, AND
                                                             AND PICK UP ALPHA (TSX ...NIX,4). 4F10820
                              CLA 0,4
02257 0 50000 4 00000
                                                            BLANK ALL BUT ...NIX.
                                                                                                4F10821
                              ANA MASK2
02260 -0 32000 0 01452
                                                            (...NIX) - (ADDR OF FXCNIX-5).
                                                                                                4F10822
                              SUB CONX
02261 0 40200 0 02274
                                                                                                4F10823
                                                            SET XR4 FOR 9 TABLES.
      0 53400 4 01417
                              LXA L(9),4
02262
      0 40200 0 01413 COMPUT SUB L(5)
                                                            COMPUTE WHICH
                                                                                                4F10824
02263
                                                                                                4F10825
                                                            TABLE OVERFLOWED.
                              TZE WHICHX
      0 10000 0 02267
                                                            IF TABLE IS NOT FOUND.
                                                                                                4F10826
                              TIX COMPUT,4,1
02265 2 00001 4 02263
                                                                                                4F10827
                                                          * GO TO DIAGNOSTIC.
02266 0 07400 4 03400
                              TSX DIAG , 4
                                                                                                4F10828
02267 -0 75400 4 00000 WHICHX PXD +4
                                                            OTHERWISE.
                                                            CONVERT 25 COMPLEMENT
                                                                                                4F10829
                              COM
      0 76000 0 00006
02270
                                                                                                4F10830
                              ADD 2E18
                                                            OF NUMBER.
02271 0 40000 0 01454
                                                            PLACE IN XR4, AND
                                                                                                4F10831
                              PDX 94
02272 -0 73400 4 00000
                                                                                                4F10832
                                                          * GO TO DIAGNOSTIC.
                              TXI DIAG .O
02273 1 00000 0 03400
                                                                                                4F10833
                                                                                                4F10834
                                                            CONSTANT USED BY DRTABS.
      0 00000 0 00412 CONX
                              PZE FXCNIX-5
02274
                                                            DRUM TABLE BUFFER.
                                                                                                4F10835
                 02357 BUFR
                              BES 50
                                                                                                4F10836
                                                            WORKING STORAGE USED BY DRTABS.
                 02357 MQ
                              BSS 1
                                                                                                4F10837
                                                            WORKING STORAGE USED BY DRTABS.
                              BSS 1
                 02360 NAR
                                                                                                4F10838
                                                            WORKING STORAGE USED BY DRTABS.
                              BSS 1
                 02361 TDA
                                                            WORKING STORAGE USED BY DRTABS.
                                                                                                4F10839
                              BSS 1
                 02362 FDA
                                                                                                4F10840
                                                            WORKING STORAGE USED BY DRTABS.
                              BSS 1
                 02363 DBL
                                                                                                4F10841
                                                            WORKING STORAGE USED BY DRTABS.
                              BSS 1
                 02364 DI
                                                            INDEXING ADDRESS FOR ABOVE -DRTABS.4F10842
                 02365 TEMP
                              BSS 0
                                                                                                4F10843
                                                            WORKING STORAGE USED BY DRTABS.
                              BSS 1
                 02365 DUMP
                                                                                                4F10844
                                   END OF PROGRAM DRTABS.
                                                                                               *4F10845
                                                                                                4F10846
                                  GETIFN.4/ CALLERS=C0100,C0200,C1000,C1100,C1600,C3200.
                                                                                                4F10847
                                  GETIFN PLACES THE INTERNAL FORMULA NUMBER IN AC AND IN 1C.
                                                                                                4F10848
                                                                                                4F10849
                                                            PLACE THE INTERNAL FORMULA
02366 -0 53400 1 00030 GETIFN LXD EIFNO.1
                                                            NUMBER IN XR1, IN THE DECREMENT
                                                                                                4F10850
                              PXD •1
02367 -0 75400 1 00000
                                                            OF THE AC, AND IN 1C. THEN
                                                                                                4F10851
                              STO 1C
02370 0 60100 0 01105
                                                          * RETURN TO CALLER.
                                                                                                4F10852
                              TRA 1:4
02371 .0 02000 4 00001
                                                                                                4F10853
                                 END OF PROGRAM GETIFN.
```

```
4F10855
                                 JIF(GIF):4/ CALLERS=RDC:EFT:LPR:SPC:CMA:EMK:INPUT(OUTPUT):
                                                                                              4F10856
                                                                                              4F10857
                                 WRA(VRD),C3200.
                                 JIF = ENTRY POINT USED BY RDC+LPR+SPC+CMA+EMK+VRA(VRD)+C3200+4F10858
                                                           INCREASE THE
02372 -0 50000 0 00030 JIF
                             CAL EIFNO
                                                                                              4F10860
                                                           INTERNAL FORMULA NUMBER
                             ADD D1
      0 40000 0 01454
                                                                                              4F10861
                                                           BY 1.
                             STD EIFNO
      0 62200 0 00030
                                                                                              4F10862
                                 GIF = ENTRY POINT USED BY EFT.INPUT(OUTPUT).
                                                           PICKUP IFN.
                             CAL EIFNO
02375 -0 50000 0 00030 GIF
                                                                                              4F10864
                                                           CLEAR SL. AND
                             ANA 1BAR
02376 -0 32000 0 01507
                                                                                              4F10865
                                                           PLACE IFN IN THE DECREMENTS
                             SLW SL
02377 0 60200 0 01367 L(SL)
                                                           OF SL AND TL.
                                                                                              4F10866
                             STD TL
     0 62200 0 01371 L(TL)
02400
                                                                                              4F10867
                                                         * EXIT TO CALLER.
                              TRA 1,4
      0 02000 4 00001
                                                                                              4F10868
                                  END OF PROGRAM JIF(GIF).
                                                             MTROOO/ MONITOR ROUTINE FOR CALLING STATES FROM DRUM.
                                                                                              4F10871
                                                                                              4F10872
                                 STATEA = ENTRY POINT FOR STATE A.
                                                                                              4F10873
                                                           SET C(XR4) = 4, THEN
      0 53400 4 01412 STATEA LXA L(4) +4
                                                           GO GET PARAMETERS.
                             TXI MTR1:0
02403 1 00000 0 02411
                                  STATEB= ENTRY POINT FOR STATE B.
                                                                                              4F10875
                                                                                              4F10876
                                                           SET C(XR4) = 2, THEN
     0 53400 4 01410 STATEB LXA L(2)+4
                                                           GO GET PARAMETERS.
                                                                                              4F10877
                             TXI MTR1.0
     1 00000 0 02411
02405
                                                                                              4F10878
                                 STATEC= ENTRY POINT FOR STATE C.
                                                                                              4F10879
                                                           SET C(XR4) = 1, THEN
     0 53400 4 01407 STATEC LXA L(1),4
02406
                                                                                              4F10880
                                                           GO GET PARAMETERS.
      1 00000 0 02411 MTRCSL TXI MTR1,0,**
                                                                                              4F10881
                                 STATED= ENTRY POINT FOR STATE D.
                                                           SET C(XR4) = 3. THEN
       0 53400 4 01411 STATED LXA L(3) +4
                                                           OBTAIN THE NUMBER OF WORDS IN THE 4F10883
                             CLA ZETA+4,4
       0 50000 4 02437 MTR1
02411
                                                           CURRENT STATE, AND SAVE.
                                                                                              4F10884
                             STD MTRCSL
      0 62200 0 02407
02412
                                                                                              4F10885
                                                           ADD THE NUMBER OF WORDS IN THE
                             ARS 18
       0 77100 0 00022
02413
                                                           CURRENT STATE TO THE MEMORY ORIGIN 4F10886
                             ADD MTR3
       0 40000 0 02430
02414
                                                                                              4F10887
                                                           TO SET ADDRESS OF COPY LOOP.
                             STA MTR2
       0 62100 0 02425
02415
                                                                                              4F10888
                                                           SET FOR FIVE ATTEMPTS.
                             LXA DRMERC 1
       0 53400 1 01413
                                                           READ SELECT CURRENT LOGICAL DRUM. 4F10889
       0 76200 4 00305 MTR15
                             RDR 5,4
                                                           LENGTH OF CURRENT STATE TO XR2.
                                                                                              4F10890
                             LXD MTRCSL , 2
02420 -0 53400 2 02407
                                                                                              4F10891
                                                           THEN COPY
                             LDA ZETA+494
02421 0 46000 4 02437
                                                                                              4F10892
                                                           CURRENT STATE
                             PXD .O.
02422 -0 75400 0 00000
                                                                                              4F10893
                                                           FROM DRUM
                              CAD DRCKSM
02423 -0 70000 0 01103
                                                                                              4F10894
                                                           INTO MEMORY
                             COM
02424 0 76000 0 00006
                                                                                              4F10895
                                                           WHILE COMPUTING
02425 -0 70000 2 00000 MTR2
                             CAD ** • 2
                                                                                              4F10896
                                                           LOGICAL CHECKSUM.
                              TIX MTR2,2,1
       2 00001 2 02425
02426
                                                           IF THIS EQUALS DRUM CHECKSUM,
                              COM
       0 76000 0 00006
02427
                                                         * THEN ENTER CURRENT STATE.
                                                                                              4F10898
                             TZE MEMORG
      0 10000 0 03440 MTR3
02430
                                                           CHECKSUM FAILED, TRY UP TO 5 TIMES.4F10899
                              TIX MTR15,1,1
      2 00001 1 02417
02431
                                                         * GO TO DIAGNOSTIC AFTER 5 FAILURES. 4F10900
02432 1 75346 4 03400 MTRERR TXI DIAG,4,-MTRERR
                                                                                              4F10902
                             PZE DEL(A), ENDADR-ORGA
      0 02663 0 00000 ZETA
02433
                                                                                              4F10903
                             PZE DEL(D) + ENDDDR-ORGD
       0 01607 0 01322
02434
                                                                                              4F10904
                             PZE DEL(B) .. ENDBDR-ORGB
       0 01302 0 02210
02435
                                                                                              4F10905
                              PZE DEL(C) .. ENDCDR-ORGC
       0 01330 0 02373
02436
                                                                                              4F10906
                                  END OF PROGRAM MTROOO.
                                                                                         * * *4F10907
                                                                                              4F10908
```

		DARROW AND THE COLUMN AND THE	и.	AF10909
		RADDO 4/ CALLERS=LPR JAR I II	DDRESS.	4F10910
	0 DAGGO SYD	DAYPA-A	SAVE THE C(XR4) FOR RETURN.	4F10911
02437 -0 63400 4 0110	0 KAUUU 3AU 7 st7	FDS	CLEAR EPSILON (WORKING STORAGE).	4F10912
02440 0 60000 0 0114	. CIA	DIMSAV	EXAMINE THE	4F10913
02441 0 30000 0 0112	S ENS PAX	F+4.4	DIMENSION COUNT, AND	4F10914
02442 0 73400 4 0113	5 TXL	FD1 • 4 • 2	IF 3 DIMENSION,	4F10915
02445 -5 00002 4 0244	7 ADD	L(1)	INCREASE IT 1.	4F109 <u>1</u> 6
02445 0 40100 0 0244	2 FD1 ADM	ED2	THEN SET	4F10917
02445 0 40100 0 0244	7 STA	ED3	ED3 ADDRESS TO	4F10918
02447 0 50000 4 0000	D ED3 CLA	**,4	EXAMINE SUCCESSIVE	4F10919
02450 0 56000 0 0145	4 LDQ	D1	SUBSCRIPT	4F10920
02451 0 10000 0 0245	4 TZE	ED4	VARIABLES, AND	4F10921
02452 -0 60000 0 0114	7 STQ	EPS	ACCORDINGLY SET	4F10922
02453 0 56000 0 0140	6 LDQ	L(0)	EPSILON AND	4F10923
02454 -0 60000 4 0114	7 ED4 STQ	EPS,4	EPSILON SUB I	4F10924
02455 2 00001 4 0244	7 TIX	ED3,4,1	TO 1 OR TO 0. WHEN DONE,	4F10925
02456 0 50000 0 0145	4 CLA	D1	IF 1 DIMENSION, PICKUP DECREMENT	194710926
02457 0 53400 4 0112	5 LXA	DIMSAV+4	AND GO SUBTRACT ADDEND 1.	4F10927
02460 -3 00001 4 0251	1 TXL	101,4,1	IF 2 OR 3 DIMENSIONS THEN	4F10920
02461 0 56000 0 0114	1 LDQ	E+11	PICKUP ADDENUS I AND 29	4F10929
02462 0 60000 0 0114	1 STZ	E+11	CLEAR ETILS AND	4F10930
02463 -0 62000 0 0114	1 SLQ	E+11	RESIDRE ADDEND I TO ETILE	AF10032
02464 -0 76300 0 0002	2 LGL	18	ADDEND 2 IN N2	AF10033
02465 -0 60000 0 0136	1 STQ	N2	ADDEND 2 IN N2.	4F10934
02466 0 56000 0 0113	4 LDQ	E+6	AND IF 2 DIMENSION	4F10935
02467 0 50000 0 0114	6 CLA	EPS-1	AND GO CURTRACT ADDEND 2.	4F10936
02470 -3 00002 4 0250	3 TXL	201,4,2	TE 2 DIMENSION. SET GTAG	4F10937
02471 0 40200 0 0114	2 SUB	E+12	TO EPSTION SUR 1 - ADDEND 3.	4F10938
02472 0 60100 0 0135	1 510	GIAG	PICKUP DIMENSIONS 1 AND 24	4F10939
02473 0 56000 0 0113	6 LDW	E+8	CLEAR E+8. AND	4F10940
02474 0 60000 0 0113	6 312	E+0	RESTORE DIMENSION 1 TO E+8.	4F10941
02475 -0 62000 0 0113	6 SLW	10	ADJUST. AND MULTIPLY	4F10942
02476 -0 76300 0 0002	2 LGL	GTAG	DIMENSION 2 TIMES GTAG.	4F10943
02477 0 20000 0 0133	1 ALS	17	THEN ADD	4F10944
02500 0 76700 0 0002	E ADD	FPS-2	EPSILON SUB 2	4F10945
02501 0 40000 0 0114	4 100	F+8	TO THE PRODUCT, AND	4F10946
02502 0 50000 0 0126	1 2D1 SUB	N2	SUBTRACT ADDEND 2.	4F10947
02504 0 40200 0 0136	1 STO	GTAG	MULTIPLY	4F10948
02504 0 00100 0 0135	1 MPY	GTAG	THE RESULT	4F10949
02506 0 76700 0 0002	1 ALS	17	TIMES	4F10950
02507 0 40000 4 0114	7 ADD	EPS+4	DIMENSION 1. AND ADD IN EPSILON	4F10951
02510 0 40000 0 0114	7 ADD	EPS	SUB I AND EPSILON.	4F10952
02511 0 40200 0 0114	1 1D1 SUB	E+11	SUBTRACT ADDEND 1.	4710953
02512 0 60100 0 0135	1 \$10	GTAG	AND PLACE THE RESULT	4F10954
02513 -0 50000 0 0112	6 CAL	E	IN THE DECREMENT OF GIAGS	4F100E4
02514 0 77100 0 0003	O ARS	24	WITH I-TAUTAG	4510057
02515 0 62100 0 0135	1 STA	GTAG	IN THE AUDKESS.	4F10050
02516 -0 53400 4 0110	O LXD	RAXR4+4	KESTUKE THE CLARATE AND	4F10950
02517 0 02000 4 0000	1 TRA	1,4	EXII IU CALLERA	4F10040
		END OF PROGRAM RADOO.		#4F10961
		****	DDRESS. SAVE THE C(XR4) FOR RETURN. CLEAR EPSILON (WORKING STORAGE). EXAMINE THE DIMENSION COUNT, AND IF 3 DIMENSION, INCREASE IT 1. THEN SET ED3 ADDRESS TO EXAMINE SUCCESSIVE SUBSCRIPT VARIABLES, AND ACCORDINGLY SET EPSILON AND EPSILON SUB I TO 1 OR TO 0. WHEN DONE, IF 1 DIMENSION, PICKUP DECREMENT AND GO SUBTRACT ADDEND 1. IF 2 OR 3 DIMENSION, THEN PICKUP ADDENDS 1 AND 2, CLEAR E+11, AND RESTORE ADDEND 1 TO E+11. ADJUST AND PLACE ADDEND 2 IN N2. AND, IF 2 DIMENSION PICKUP EPSILON SUB 1, AND GO SUBTRACT ADDEND 2. IF 3 DIMENSION, SET GTAG TO EPSILON SUB 1 — ADDEND 3. PICKUP DIMENSIONS 1 AND 2. CLEAR E+8, AND RESTORE DIMENSION 1 TO E+8. ADJUST, AND MULTIPLY DIMENSION 2 TIMES GTAG. THEN ADD EPSILON SUB 2 TO THE PRODUCT, AND SUBTRACT ADDEND 2. MULTIPLY THE RESULT TIMES DIMENSION 1, AND ADD IN EPSILON SUBTRACT ADDEND 1. AND PLACE THE RESULT IN THE DECREMENT OF GTAG, WITH 1-TAUTAG IN THE ADDRESS. RESTORE THE C(XR4), AND EXIT TO CALLER. * * * * * * * * * * * * * * * * * * *	4F10962

```
4F10963
                                         RDRX+4/ CALLS=DIAG. CALLER=DRTABS.
                                         RDRX READS A BLOCK OF DRUM ENTRIES INTO 50 WORD BUFR.
                                                                                                       4F10964
                                                                   SET FOR 5 ATTEMPTS TO READ DRUM.
                                                                                                       4F10965
      02520 0 53400 1 01413 RDRX
                                     LXA DRMERC 1
                                                                                                       4F10966
                                                                   SET XR2 = (5-DRUM NUMBER).
                                     LXD DI+2
      62521 -0 53400 2 02364 REP
                                                                                                       4F10967
                                                                  IF NOT GREATER THAN ZERO,
                                     TXH BIAS-2+2+0
             3 00000 2 02524
                                                                                                       4F10968
                                                                 * GO TO DIAGNOSTIC.
                                     TSX DIAG 4
             0 07400 4 03400
      02523
                                                                                                       4F10969
                                                                   SELECT CURRENT DRUM.
                                     RDR 5.2
      02524 0 76200 2 00305
                                                                                                       4F10970
                                                                   SET XR2 = NO. OF WORDS TO COPY.
                                     LXD FDA,2
      02525 -0 53400 2 02362
                                                                   CLEAR THE AC.
                                                                                                       4F10971
                                     PXD ETSUM.0
      02526 -0 75400 0 02554 BIAS
                                                                   DRUM ORIGIN OF CURRENT BLOCK.
                                                                                                       4F10972
                                     LDA FDA
      02527 0 46000 0 02362
                                                                                                       4F10973
                                                                   (ETSUM-2*L) TXL=ENTRY,TXH=BLOCK.
                                   TXL **
      02530 -3 00000 0 00000 JUMP1
TD
                                                                                                       4F10974
                                                                   READ
                                     CAD DUMP
      02531 -0 70000 0 02365
                                                                                                       4F10975
                                                                   FLOCON BLOCK
                                     COM
      02532
            0 76000 0 00006
                                                                                                       4F10976
                                                                   AND COMPUTE
                                     CAD BUFR + 2
      02533 -0 70000 2 02357 LBUF
                                                                                                       4F10977
                                                                   LOGICAL CHECKSUM.
                                     TIX LBUF,2,1
            2 00001 2 02533
      02534
                                                                                                       4F10978
                                                                   GO TEST CHECKSUM.
             1 00000 0 02562 XR1
                                     TXI PROVE , 0 , **
                                                                                                       4F10979
                                                                   COPY LOOP
                                     CPY BUFR + 2
            0 70000 2 02357
                                                                                                       4F10980
                                                                   FOR ALL
                                     TNX ERR,2,1
      02537 -2 00001 2 02564
                                                                                                       4F10981
                                                                   TABLES
                                     CPY BUFR 2
             0 70000 2 02357
      02540
                                                                                                       4F10982
                                                                   EXCEPT
                                     TNX ERR +2 +1
      02541 -2 00001 2 02564
                                                                                                       4F10983
                                                                   FLOCON=
                                     CPY BUFR 2
      02542 0 70000 2 02357
                                                                                                       4F10984
                                    TNX ERR+2+1
      02543 -2 00001 2 02564
                                                                                                       4F10985
                                     CPY BUFR 2
             0 70000 2 02357
                                                                                                       4F10986
                                    TNX ERR+2+1
      02545 -2 00001 2 02564
                                                                                                       4F10987
                                     CPY BUFR 2
            0 70000 2 02357
                                                                                                       4F10988
      02547 -2 00001 2 02564
                                    TNX ERR,2,1
                                                                                                       4F10989
                                     CPY BUFR + 2
            0 70000 2 02357
      02550
                                                                                                       4F10990
                                     TNX ERR +2+1
      62551 -2 00001 2 02564
                                                                                                       4F10991
                                     CPY BUFR + 2
             0 70000 2 02357
      02552
                                                                                                       4F10992
                                     NOP
             0 76100 0 00000
      02553
                                                                   SUM CHECKSUMS.
                                                                                                       4F10993
                                     CAD DUMP
      82554 -0 70000 0 02365 ETSUM
                                    ACL BUFR,2
TIX RDRXCR+2,2,1
COM
'ZE 1,4
'X REP,1,1
'X DI*
                                                                   (ETSUM-2*L) TEST END OF BLOCK.
                                                                                                       4F10994
            2 00001 2 00000 JUMP2 TIX **,2,1
                                                                                                       4F10995
                                                                   COMPUTE
      02556 -0 53400 2 02362 RDRXCR LXD FDA+2
                                                                                                       4F10996
                                                                   NEW
             0 76000 0 00006
      02557
                                                                                                       4F10997
                                                                   LOGICAL
             0 36100 2 02357
      02560
                                                                   CHECKSUM, AND
                                                                                                       4F10998
             2 00001 2 02560
      02561
                                                                   IF CHECKSUMS COMPARE
                                                                                                       4F10999
             0 76000 0 00006 PROVE COM
      02562
                                                                                                       4F11000
                                                                 * RETURN TO MAIN ROUTINE.
             0 10000 4 00001
      02563
                                                                   OTHERWISE, REPEAT UP TO 5 TIMES.
                                                                                                       4F11001
             2 00001 1 02521 ERR
      02564
                                                                 * FAILED 5 TIMES IN READING DRUM.
                                                                                                       4F11002
                                     TSX DIAG +4
             0 07400 4 03400
      02565
                                                                                                       4F11003
                                          END OF PROGRAM RDRX.
                                             4F11005
                                         SR6DC1:1/ CALLS=DIAG. CALLERS=CA000:SS000.
                                                                                                       4F11006
                                         SR6DC1 CONVERTS UP TO 6 BCD DIGITS TO THEIR BINARY EQUIV.
                                                                                                       4F11007
                                    SKBDC1 CONVERTS OF TO
SXD SR6XR2,2
LXA L(6),2
STZ SR6WRK
PXD ,0
LGL 6
CAS ABLANK
                                                                                                       4F11008
                                                                   SAVE THE C(XR2), AND
      02566 -0 63400 2 02574 SR6DC1 SXD SR6XR2:2
                                                                   SET TO COUNT 6 CHARACTERS.
                                                                                                       4F11009
      02567 0 53400 2 01414
                                                                   INITIALIZE OUTPUT CELL TO 0.
                                                                                                       4F11010
            0 60000 0 01101
                                                                   OBTAIN NEXT CHARACTER
                                                                                                       4F11011
      02571 -0 75400 0 00000 SR6DC2 PXD +0
                                                                                                       4F11012
                                                                  IN AC AND
      02572 -0 76300 0 00006
                                                                 TEST FOR BLANK.
                                                                                                       4F11013
            0 34000 0 01430
      02573
                                                               IF NOT BLANK,
                                                                                                       4F11014
            1 00000 0 02576 SR6XR2 TXI SR6DC3:0:**
                                                                  (DECR= END OF PROBLEM INDICATOR)
                                                                                                       4F11015
            1 77777 0 02610 ENDWRD TXI SR6DC4:0:-1
                                                                                                       4F11016
                                                                   TEST FOR NUMERIC.
            0 34000 0 01417 SR6DC3 CAS L(9)
      02576
```

```
## IF NON-NUMERIC - GO TO DIAGNOSTIC. 4F11017

## IF NON-NUMERIC - GO TO DIAGNOSTIC. 4F11018

## IF NON-NUMERIC - GO TO DIAGNOSTIC. 4F11018

## IF NON-NUMERIC - GO TO DIAGNOSTIC. 4F11018

## IF NON-NUMERIC - GO TO DIAGNOSTIC. 4F11017

## IF NON-NUMERIC - GO TO DIAGNOSTIC. 4F11018

## IF NON-NUMERIC - GO TO
                                                                                                                                                                                                                                                                                                                SSOOO,4/ CALLS=C0190,DIAG,SR6DC1,DIM.SR,DRTABS,TET00,TESTFX. 4F11033
CALLERS=ARITH,LPR,C0200. 4F11034
SSOOO SCANS SUBSCRIPT COMBINATIONS AND MAKES TABLE ENTRIES. 4F11035
                                                                 | Callers=artith=left | College | Callers | Ca
D.
```

```
RESTORE FIXED POINT VARIABLE
                                                                                                        4F11071
02657 -0 76300 0 00036
                                LGL 30
                                                                                                        4F11072
                                                                 TO RESIDU. AND
                                SLW RESIDU
62660 0 60200 0 01365
                                                                 RESET CHARACTER COUNTER
                                                                                                        4F11073
                                LXD CHCTR+4
02661 -0 53400 4 01724
                                                                                                        4F11074
                                                                 TO BEGIN PROCESSING
                                TXI SS0018,4,1
      1 00001 4 02663
                                                                                                       4F11075
                                                                 SUBSCRIPT MULTIPLIER.
02663 -0 63400 4 01724 SS0018 SXD CHCTR+4
                                                                                                       4F11076
                                                                 TEST FOR
                                CLS SBC6
      0 50200 0 02776
                                                                                                       4F11077
                                                                 PREVIOUS MULTIPLIER.
                                TMI SBX1
02665 -0 12000 0 02667
                                                               * DOUBLE MULTIPLIER FOR SUBSCRIPT.
                                                                                                       4F11078
       0 07400 4 03400
                                TSX DIAG,4
02666
                                                                 RESET MULTIPLIER SWITCH.
                                                                                                       4F11079
                                STO SBC6
       0 60100 0 02776
                          SBX1
02667
                                                                                                       4F11080
                                                                 TEST
                                CLA FIRSTC
       0 50000 0 01331
                                                                                                       4F11081
                                                                 MULTIPLIER
                                SUB L(10)
      0 40200 0 01373
                                                                 FOR CONSTANT.
                                                                                                       4F11082
                                TMI SBX2
02672 -0 12000 0 02674
                                                                                                       4F11083
                                                             * SUBS-MULTIPLIER NOT A CONSTANT.
                                TSX DIAG,4
       0 07400 4 03400
02673
                                                  GET STORING ...
AND STORE MULTIPLIED.

SET ADDEND = 0.

SET FOR 6 CHARS OF VARIABLE/ADDEND...
CLEAR WORKING STORAGE. 4F11090

* GO GET NEXT NB CHARACTER IN THE AC.4F11091
COMPARE CHARACTER 4F11092
TO ALL 4F1109

FOUND, TRANSFER. 4F1109

4F1109

4F1109
                                                                 ADJUST MULTIPLIER
                                                                                                       4F11084
02674 -0 50000 0 01370 SBX2
                                CAL SYMBOL
                                ARS 42,2
      0 77100 2 00052
02676 -0 53400 4 02726
                                LXD SBS2,4
                                SLW E+9,4
       0 60200 4 01137
02677
       0 60000 4 01145
                                STZ E+15,4
02700
       0 53400 3 01414 SS003
                                LXA L(6) .3
02701
                                STZ SYMBOL
02702
       0 60000 0 01370
       0 07400 4 01707 SS004
                                TSX C0190,4
02703
       0 53400 4 02652 SS0045 LXA CTESTX.4
                                CAS CTEST +4
       0 34000 4 01406 SS005
02705
                                TXI SS006.0
02706
       1 00000 0 02710
                                TRA SUBTR 4
       0 02000 4 02733
02707
      2 00001 4 02705 SS006
                               TIX SS005,4,1
02710
                                                                 IF 1ST CHARACTER OF VARIABLE OR
                                TXL SS008,1,5
02711 -3 00005 1 02713
                                                                                                       4F11098
                                                                 ADDEND. SAVE FOR LATER TESTS.
                                STO FIRSTC
       0 60100 0 01331
02712
                                                                                                       4F11099
                                                                 POSITION EACH CHARACTER. BUT
       0 76700 2 00044 SS008
                               ALS 36,2
02713
                                                            * ON 7TH CHARACTER, GO TO STOP.
                                                                                                       4F11100
02714 -3 00000 1 02720 SS009
                                TXL STOP49,1,0
                                                                 BUILD SYMBOL.
                                                                                                       4F11101
                                ORS SYMBOL
02715 -0 60200 0 01370
                                                                 UPDATE EFFECTIVE ADDRESS OF SHIFT. 4F11102
                                TXI 55007,2,6
      1 00006 2 02717
02716
                                                                 UPDATE FOR ANOTHER CHAR COLLECTED. 4F11103
       1 77777 1 02703 SS007
                               TXI SS004,1,-1
                                                              * GO TO DIAGNOSTIC ON 7TH CHARACTER. 4F11104
       0 07400 4 03400 STOP49 TSX DIAG,4
                                     SUBTR/ CONTROL TRANSFERS FOR SUBSCRIPT SCAN=
                                                                                                       4F11105
                                                                 EMK (ILLEGAL IN LIST SUBSCRIPT).
                                                                                                       4F11106
                                TXI ISC + O
      1 00000 0 02722
02721
                                                                     (ILLEGAL IN LIST SUBSCRIPT).
                                                                                                       4F11107
                                TSX DIAG,4
       0 07400 4 03400
02722
                                                                                                       4F11108
                                TXI SBC+0
02723
       1 00000 0 02772
                                                                                                       4F11109
                                TXI SBR,0
       1 00000 0 02770
02724
                                                                     (ILLEGAL IN LIST SUBSCRIPT).
                                                                                                       4F11110
                                TXI ISC+0
       1 00000 0 02722
02725
                                                                   **SUBSCRIPT ELEMENT COUNTER*
                                                                                                       4F11111
       1 00000 0 02733 SBS2
                                TXI SBM,0,**
02726
                                                                     (ILLEGAL IN LIST SUBSCRIPT).
                                                                                                       4F11112
                                TXI ISC + 0
       1 00000 0 02722
02727
                                                                     (ILLEGAL IN LIST SUBSCRIPT).
                                                                                                       4F11113
                                TXI ISC,0,**
         00000 0 02722 SXR1
02730
       1
                                                                                                       4F11114
                                TXI SBP,0,**
       1 00000 0 02734 5XR2
                                                                                                       4F11115
       1 00000 0 02664 SXR4
                                TXI SBX.0.**
02732
                                                                 INDEXING ADDRESS FOR ABOVE LIST.
                                                                                                       4F11116
                                BSS 0
                  02733 SUBTR
                                                                 MINUS ADDEND.
                                                                                                       4F11117
                                SSM
02733 -0 76000 0 00003
                          SBM
                                                                 PLUS ADDEND.
                                                                                                       4F11118
                                CLM
02734 0 76000 0 00000
                                                                 GET STORING TAG, AND
                                                                                                       4F11119
                                LXD SBS2+4
02735 -0 53400 4 02726
                                                                 STORE SIGN OF ADDEND.
                                                                                                       4F11120
                                STO E+15,4
       0 60100 4 01145
02736
                                                                 TEST SWITCH
                                                                                                       4F11121
                                CLS SBC8
       0 50200 0 02777
02737
                                                                 FOR PREVIOUS ADDEND.
                                                                                                       4F11122
                                TMI SBP1
02740 -0 12000 0 02742
                                                              * DOUBLE ADDEND FOR SUBSCRIPT.
                                                                                                       4F11123
                                TSX DIAG +4
       0 07400 4 03400
02741
                                                                 RESET ADDEND SWITCH.
                                                                                                       4F11124
                         SBPl
                                STO SBC8
02742 0 60100 0 02777
```

```
4F11125
                                                                * GO TO TEST FOR FIXED POINT.
                                    TSX TESTFX.1
             0 07400 1 03241
                                                                * NOT FIXED POINT -- GO TO DIAGNOSTIC 4F11126
                                    TSX DIAG,4
             0 07400 4 03400
                                                                  GET STORING TAG. AND
                                                                                                      4F11127
                                    LXD SBS2,4
      02745 -0 53400 4 02726
                                                                                                      4F11128
                                                                  TEST SWITCH
                                    CLS SBC6
            0 50200 0 02776
                                                                  FOR PREVIOUS MULTIPLIER.
                                                                                                      4F11129
      02747 0 12000 0 02754
                                    TPL SBP2
                                                                                                      4F11130
                                                                  IF NONE .
                                    CLA L(1)
      02750 0 50000 0 01407
                                                         SET MULTIPLIER
TO 1, AND CONTINUE.
RESET MULTIPLIER
OP SWITCH.
IF VARIABLE SUBSCRIPT.
ADD A BLANK
IF LESS
                                                                  SET MULTIPLIER
                                                                                                      4F11131
      02751 0 60100 4 01137
                                    STO E+9,4
                                                                                                      4F11132
                                  SIO SBC6
CAL SYMBOL
TXH SBP41,2,36
CAL BLANK
ALS 36,2
ORA SYMPO
                                    TXI SBP4,0
      02752 1 00000 0 02755
                                                                                                      4F11133
      02753 0 50200 0 02776 SBC1
                                                                                                      4F11134
      02754 0 60100 0 02776 SBP2
                                                                                                      4F11135
      02755 -0 50000 0 01370 SBP4
                                                                                                      4F11136
      02756 3 00044 2 02762
                                                                                                      4F11137
      02757 -0 50000 0 01430
                                                                                                      4F11138
                                                                  THAN 6
                                                                 CHARACTERS, AND
PLACE IN E-REGION.
      02760 0 76700 2 00044
                                                                                                      4F11139
      02761 -0 50100 0 01370
                                                                                                      4F11140
                             SBP41 SLW E+10,4
      02762 0 60200 4 01140
                                                                * GO TO TEST FOR FIXED POINT.
                                    TSX TESTFX.1
                                                                                                      4F11141
      02763 0 07400 1 03241
                                                              * NOT FIXED POINT -- GO TO DIAGNOSTIC 4F11142
                                    TSX DIAG,4
      02764 0 07400 4 03400
                                                                  IF THERE IS AN ADDEND,
                                                                  GO COLLECT, OTHERWISE STORING TAG.
                                                                                                     4F11143
                                    CLA SBC8 -
      02765 0 50000 0 02777
                                                                                                      4F11144
      02766 -0 12000 0 02701
                                    TMI SSOO3
                                                                                                      4F11145
                                    TXI SBC7.0
      02767 1 00000 0 03012
D
                                                                                                      4F11146
                                                                  SET SWITCH
      02770 0 50200 0 03014 SBR
                                    CLS SBC4
                                                                  FOR CLOSING PARENTHESIS.
                                                                                                      4F11147
                                    STO SBC4
      02771 0 60100 0 03014
                                                                                                      4F11148
                                                                  UPDATE
DIMENSION COUNTER
                                                                  UPDATE
      02772 -0 50000 0 01100 SBC
                                    CAL DIMCTR
                                                                                                      4F11149
                                    ADD L(1)
      02773 0 40000 0 01407
                                                                                                      4F11150
                                    STA DIMCTR
      02774 0 62100 0 01100
                                                                                                      4F11151
                                                                  GET STORING TAG.
                                    LXD SBS2+4
      02775 -0 53400 4 02726
                                                                  SWITCH-IF NO MULTIPLIER, AND
                                                                                                      4F11152
                                    TXH SBC1+0
      02776 3 00000 0 02753 SBC6
                                                                                                      4F11153
                                                                  SWITCH-IF NO ADDEND. THEN
                                    TXH SBC2 • 0
      02777 3 00000 0 03016 SBC8
                                                                                                      4F11154
                                                                  SET
                                    CLA L(1)
      03000 0 50000 0 01407
                                                                                                      4F11155
                                                                  MULTIPLIER = 1.
                                    STO E+9,4
      03001 0 60100 4 01137
                                                                                                      4F11156
                                                                  SET ADDEND = 0.
      03002 0 60000 4 01145
                                    STZ E+15,4
                                                                  TEST FOR
                                                                                                      4F11157
                                    CLA FIRSTC
      03003 0 50000 0 01331
                                                                  CONSTANT OR VARIABLE.
                                                                                                      4F11158
                                    SUB L(10)
            0 40200 0 01373
      03004
                                                                                                      4F11159
                                                                  IF CONSTANT, THEN
                                    TPL SBP4
            0 12000 0 02755
      03005
                                                                  SET VARIABLE = 0.
                                                                                                      4F11160
                                    STZ E+10,4
      03006 0 60000 4 01140
                                                                                                      4F11161
                                                                  ADJUST
      03007 -0 50000 0 01370 SBC9
                                    CAL SYMBOL
                                                      UPDA
BY -2,
SWITCH-REPL
GO MAKE TABLE
RESET ADDEND
OP SWITCH.
TEST
TOEND
                                                                                                      4F11162
                                                                  CONSTANT
                                    ARS 42,2
      03010 0 77100 2 00052
                                                                  TO LOW ORDER POSITION.
                                                                                                      4F11163
                                    ORS E+15,4
      03011 -0 60200 4 01145
                                                                  UPDATE STORING TAG
                                                                                                      4F11164
      03012 -2 00002 4 03024 SBC7
                                    TNX SBC3,4,2
                                                                                                      4F11165
                                                                  BY -2, AND SAVE.
                                    SXD SBS2+4
      03013 -0 63400 4 02726
                                                                  SWITCH-REPEAT FOR NEXT SUB-COMB.
                                                                                                      4F11166
                                    TXL $5001.0
      03014 -3 00000 0 02627 SBC4
                                                                  GO MAKE TABLE ENTRIES AND GET TAG. 4F11167
                                    TXI SA000+0
      03015 1 00000 0 03030
                                                                                                      4F11168
                              SBC2 CLS SBC8
      03016 0 50200 0 02777
                                                                                                      4F11169
                                    STO SBC8
      03017 0 60100 0 02777
                                                                                                      4F11170
                                    CLS L(10)
      03020 0 50200 0 01373
                                                                                                      4F11171
                                    ADD FIRSTC
      03021 0 40000 0 01331
                                                                                                      4F11172
                                    TMI SBC9
      03022 -0 12000 0 03007
                                                                * SUBSCRIPT ADDEND NOT A CONSTANT.
                                                                                                      4F11173
                                    TSX DIAG .4
      03023 0 07400 4 03400
                                                                  AFTER SCANNING 3 SUBSCRIPTS,
                                    CLS SBC4
      03024 0 50200 0 03014 SBC3
                                    TMI SAOOO
TSX DIAG,4
                                                                  GO MAKE TABLE ENTRIES AND GET TAG. 4F11175
      03025 -0 12000 0 03030
                                                                * GO TO DIAG - NO ) AFTER 3RD SUBS. 4F11176
      03026 0 07400 4 03400
                                        CSA000= ENTRY POINT USED BY CO200 (GO TO ROUTINE).
                                                                                                      4F11177
      03027 -0 63400 4 02732 CSA000 SXD SXR4+4 SAVE C(XR4) FOR RETURN TO C0200+
                                                                                                     4F11178
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				c	DINCTO		EAVE	AF11179
03030 0	50000	0 01100	SAUUU	CLA	DIMCIR		THE CONTENTS OF DINCTD.	4F11180
03031 0	60100	0 01125		\$10	DIMSAV		DOCUTION AND	4511101
03032 0	76700	0 00041		ALS	33		POSITION AND	4511101
03033 0	60100	0 01126		STO	E		STORE I TAG.	4711182
03034 0	50000	0 01141		CLA	E+11		MOVE SUBSCRIPT ADDENDS	4F11183
03034 0	60100	0 03142		STO	F+12		INTO POSITION	4F11184
03035 0	50100	0 01142		CI A	EAG		FOR FOLLOWING	4F11185
03036 0	50000	0 01137		CLA	E-7		DOCCDAM.	4F11186
03037 0	60100	0 01141		510	E+11		FRUGRAMI	4511187
03040 0	50000	0 01410		CLA	L(2)		EXAMINE DIMCIR	4511100
03041 0	34000	0 01100		CAS	DIMCTR		TO DETERMINE	4711188
63042 1	00000	0 03174		TXI	1D0000 • 0		WHETHER DIMENSION OF	4511189
03043 1	00000	0 03131		TXI	200000•0		VARIABLE IS 1, 2, OR 3.	4F11190
02045 0	53400	4 01414	300000	I XA	1 (6) 44		PREPARE TO PICK UP 3 COEFFICIENTS.	4F11191
03044 0	5400	, 01717 , 01127	300000	100	E±0.4		CONVERT THEM FROM BCD TO BINARY	4F11192
03045 0	20000	4 01157	300001	TCV	CD/DC1-1	*	IN E+3.5.7. AND	4F11193
03046 0	07400	1 02566		127	SKOUCIFI	_	CTODE DACK IN C+2.5.7.	4E11104
03047 0	60100	4 01137		\$10	E+9,4		STORE BACK IN ET393974	4511106
03050 2	00002	4 03045		TIX	3D0001,4,2		WHEN DONE, PREPARE	4511195
03051 0	53400	4 01411		LXA	L(3),4		TO PICK UP 3 ADDENDS.	4F11196
02052 0	50000	4 01144	300002	CLA	E+14•4		CONVERT ADDENDS (BCD TO BINARY)=	4F11197
03052 0	50000	01347	35000	SIW	6		STRIP OFF	4F11198
05055 0	50200	0 01247		100	ě		SIGNA	4F11199
03054 U	56000	0 01341		TOV	60(061.1	*	CONVERT ADDENDS IN F+11-12-13-	4F11200
03055 0	07400	1 02566		ISX	SKEDCIFI	*	DUT CICH IN COULT OF MO. AND	4F11201
03056 0	56000	4 01144		FDG	E+14,4		PUI SIGN IN S-BIT OF MOT AND	4511401
03057 0	16200	0 03061		TQP	3D0040		IF PLUSSKIP NEXT	4F11202
03060 -0	50100	0 01453		ORA	2E17		IF MINUS-OR SIGN INTO BIT 18,	4F11203
03061 0	60100	4 01144	3D0040	STO	E+14•4		AND STORE BACK INTO E+11+12+13.	4F11204
03001 0	00101	4 03052		TIX	3D0002 • 4 • 1		WHEN DONE.	4F11205
03002 2	00001	4 03032 4 03005		TSY	DIM2SR.4	*	GO SEARCH DIM3 TABLE.	4F11206
03063 0	07400	4 02005		130	DIMISKYT		FREDERA NOT ON DRUMA	4F11207
03064 0	07400	4 03400		127	DIAG94	-	DECOMATIZE E-STRING -	4F11208
03065 0	50000	0 01131	3D0060	CLA	E+3		REFORMATIZE E-STRING -	4F11200
03066 0	76700	00022		ALS	18		PACK TOGETHER COEFFICIENTS ! AND 2	4511209
03067 0	40000	0 01133		ADD	E+5		AND STORE THEM	4F11210
03070 0	60100	0 01131		STO	E+3		IN E+3.	4F11211
03070 0	50000	0 01132		CLA	E+4		MOVE SUBSCRIPT 1	4F11212
03071 0	40100	0 01122		STO	F±5		TO E+5.	4F11213
93012 0	90100	0 01133		G. A	E+7		AND MOVE	4F11214
0 3073 0	50000	0 01135		CLA	ET!		CAEEEICIENT 2	AF11215
03074 0	76700	0 00022		ALS	18		CUEFFICIENT	4511216
63075 0	60100	0 01132		STO	E+4		INTO E+4.	4511510
03076 0	50000	0 01136		CLA	E+8		MOVE SUBSCRIPT 3 INTO E+7.	4711217
03077 0	60100	0 01135		STO	E+7		NEXT TO SUBSCRIPT 2 IN E+6.	4F11218
02100 0	50000	0 01101		CLA	D12		MOVE DIMENSIONS 1 AND 2	4F11219
05100 0	10100	0 01101		STO	E+6		INTO E+8.	4F11220
03101 0	90100	0 01136		310	E+0		DACK TOGETHED	AF11221
03102 -0	50000	0 01141		CAL	£+11		ADDENDE 1 AND 3	4F11222
03103 0	76700	0 00022		ALS	18		AUDENUS 1 AND 2	4E11222
03104 -0	50100	0 01142		ORA	E+12		AND	4511773
03105 0	60200	0 01141		SLW	E+11		STORE THEM IN E+11.	4711224
03106 -0	50000	0 01143		CAL	E+13		MOVE	4111225
03107 0	76700	00022		ALS	18		ADDEND 3	4F11226
02101 0	40200	0 03142		SIL	F+12		INTO E+12.	4F11227
03110 0	60200	0.0146		TCY.	TAUSTY		GO SEARCH TAUS TABLE	4F11228
03111 0	07400	4 00443		134	INVELNIT	-	POSITION TAUS TAGA AND	4F11229
03112 0	76700	00030		ALS	24		PLACE TALLS TAG IN TAG MODE	4E11220
03113 -0	60200	0 01126		OR\$	Ε		PLACE TAUS TAG IN TAG WUKD.	4511230
03114 -0	50000	0 01135		CAL	E+7		COMBINE	4711231
02315 -0	50100	0 01134		ORA	E+6		SUBSCRIPTS 3,2, AND 1,	4F11232
42112 C	20100						THE CONTENTS OF DIMCTR. POSITION AND STORE I TAG. MOVE SUBSCRIPT ADDENDS INTO POSITION FOR FOLLOWING PROGRAM. EXAMINE DIMCTR TO DETERMINE WHETHER DIMENSION OF VARIABLE IS 1, 2, OR 3. PREPARE TO PICK UP 3 COEFFICIENTS. CONVERT THEM FROM BCD TO BINARY IN E+3+5,7, AND STORE BACK IN E+3,5,7. WHEN DONE, PREPARE TO PICK UP 3 ADDENDS. CONVERT ADDENDS (BCD TO BINARY)= STRIP OFF SIGN, CONVERT ADDENDS IN E+11,12,13, PUT SIGN IN S-BIT OF MG, AND IF PLUS—SKIP NEXT, IF MINUS—OR SIGN INTO BIT 18, AND STORE BACK INTO E+11,12,13. WHEN DONE, GO SEARCH DIM3 TABLE. —ERRORNOT ON DRUM. REFORMATIZE E-STRING = PACK TOGETHER COEFFICIENTS 1 AND 2 AND STORE THEM IN E+3. MOVE SUBSCRIPT 1 TO E+5. AND MOVE COEFFICIENT 3 INTO E+4. MOVE SUBSCRIPT 3 INTO E+7. NEXT TO SUBSCRIPT 2 IN E+6. MOVE DIMENSIONS 1 AND 2 INTO E+8. PACK TOGETHER ADDENDS 1 AND 2 AND STORE THEM IN E+11. MOVE ADDEND 3 INTO E+12. GO SEARCH TAU3 TABLE. POSITION TAU3 TAG, AND PLACE TAU3 TAG IN TAG WORD. COMBINE SUBSCRIPTS 3,2, AND 1,	

	•										4511222
	03116	-0	50100	0	01133	3D0340	ORA	E+5		AND IF THEY ARE ALL ZERO	4F11234
	03117	0	10000	0	03216	3D0350	TZE	NOTAG		ENTER FORTIGE	4F11225
	03120	-0	50000	0	00030	FTG000	CAL	EIFNO		ENIER FURIAGE	4511226
	03121	-0	32000	0	01527		ANA	MASK1		BRING UP ALPHA (INTORMAC)	4F11237
	03122	0	60200	0	01347		SLW	G		AND STORE IN G.	4511220
	03123	-0	50000	0	01126		CAL	Ε		BRING UP TAULAG FOR 19	4511230
	03124	0	77100	0	00030		ARS	24		ADJUST AND	4511239
	03125	-0	60200	0	01347		ORS	G		PLACE IN G WITH ALPHA. THEN	4F11240
	A3126	Õ	07400	1	03321		TSX	TET00+1	*	ENTER INTO FORTAG TABLE	4F11241
	02127	ň	00000	ō	00004		PZE	4		(TET TABLE 4).	4F11242
	02121	ĭ	00000	ň	03220		TXI	SAEXIT+0		GO TO EXIT.	4F11243
D .	03130	á	53400	4	01412	200000	LXA	L(4).4		THEN PICKUP AND	4F11244
	03131	٥	56000	4	01135	200001	LDQ	E+7.4		CONVERT COEFFICIENTS	4F11245
	03132	~	07400	7	02566		TSX	SR6DC1 •1	*	(BCD TO BINARY) +	4F11246
	03133	Š	60100	4	02300		STO	F+7.4		AND STORE BACK IN E+3 AND E+5.	4F11247
	03134	٥	00100	7.	01133		TIX	200001-4-2		WHEN DONE,	4F11248
	03135	4	504002	4	03132		1 7 4	1/21-4		PREPARE TO	4F11249
	03136	0	53400	4	01410	300003		E+12.4		PICKUP THE TWO ADDENDS.	4F11250
	03137	0	50000	*	01145	200002	CLM	6		STRIP OFF	4F11251
	03140	O	60200	Ŏ	01347		35.	G		THEIR SIGNS	4F11252
	03141	Ü	56000	Ü	01541		TCV	SPANCIAI	*	CONVERT THEM FROM BCD TO BINARY.	4F11253
*	03142	0	0 /400	Ţ	02566		127	5K00C171		PUT SIGN IN S-BIT OF MQ. AND	4F11254
	03143	0	56000	4	01143		TOP	200040		IF PLUSSKIP NEXT	4F11255
	03144	Ü	16200	Ŏ	03140		OBA	2517		IF MINUSOR SIGN INTO BIT 18.	4F11256
	03145	-0	50100	Ü	01455	200040	STA	E+12.4		AND STORE BACK IN E+11 AND E+12.	4F11257
	03146	0	60100	4	01143	200040	TIV	200002.4.1		WHEN DONE .	4F11258
	03147	2	00001	4	03131		TCV	2000029491	*	GO SEARCH DIM2 TABLE.	4F11259
	03150	0	07400	4	01115		TCV	DIMESKYT	*	ERROR NOT ON DRUM.	4F11260
	03151	0	07400	4	03400	200060		ET3		REFORMATIZE E-STRING =	4F11261
	03152	Ū	50000	Ô	01131	200000	ALS	10		PACK TOGETHER	4F11262
	03153	Ü	16/00	Ŏ	00022		WE2	10 E45		COEFFICIENTS 1 AND 2.	4F11263
,	03154	Ŭ	40000	Ŏ	01133		STO	E+3		AND STORE THEM IN E+3.	4F11264
	03155	Ü	90100	Ŏ	01131		C! A	ETS		MOVE SUBSCRIPT 2 INTO E+5	4F11265
	03156	0	50000	0	01134		CLA	E+6		(NEXT TO SUBSCRIPT 1 IN E+4).	4F11266
	03157	0	60100	0	01133		310	D12		ORTAIN	4F11267
	03160	0	50000	0	01101		ANA	MVCKJ		DIMENSION 1. AND MOVE IT	4F11268
	03161	-0	32000	0	01527		ETO	MASKI		INTO F+6.	4F11269
	03162	. 0	60100	0	01134		210	EATT		PACK TOGETHER	4F11270
	03163	-0	50000	Ü	01141		AL C	10		ADDENDS 1 AND 2.	4F11271
	03164	0	76700	0	00022		ALS	10 E+12		AND STORE THEM	4F11272
	03165	-0	20100	ō	01142		C! W	E+11		IN E+11.	4F11273
	03166	Ū	60200	Ü	01141		TCY	TAUDIYAA	*	GO SEARCH TAUZ TABLE.	4F11274
	03167	0	07400	4	00436		134	1 MUZ 1 N 9 4		POSITION TAUZ TAG, AND	4F11275
	03170	0	76700	Ü	00030		ALS	24 E		PLACE TAUZ TAG IN TAG WORD.	4F11276
	03171	-0	60200	0	01126		CAL	E		COMBINE SUBSCRIPTS 1 AND 2, AND	4F11277
	03172	-0	50000	ō	01132		CAL	200240.0		GO TO FORTAG SECTION.	4F11278
D	03173	1	00000	0	03116		: VI	50034090		PICKUP AND CONVERT COEFFICIENTS	4F11279
	03174	0	56000	0	01131	100000	LDW	E73		(BCD TO BINARY) AND	4F11280
	03175	0	07400	1	02566		15%	SKODCIFI	-	THEN ADJUST THEM.	4F11281
	03176	0	76700	O	00022		ALS	10		AND IF THEY ARE ALL ZERO; —DON;T ENTER FORTAG. ENTER FORTAG= BRING UP ALPHA (INTFORMNO) AND STORE IN G. BRING UP TAUTAG FOR I; ADJUST; AND PLACE IN G WITH ALPHA. THEN ENTER INTO FORTAG TABLE (TET TABLE 4). GO TO EXIT. THEN PICKUP AND CONVERT COEFFICIENTS (BCD TO BINARY); AND STORE BACK IN E+3 AND E+5. WHEN DONE; PREPARE TO PICKUP THE TWO ADDENDS. STRIP OFF THEIR SIGNS; CONVERT THEM FROM BCD TO BINARY; PUT SIGN IN S-BIT OF MQ; AND IF PLUS—SKIP NEXT; IF MINUS—OR SIGN INTO BIT 18, AND STORE BACK IN E+11 AND E+12. WHEN DONE; GO SEARCH DIM2 TABLE. —ERROROT ON DRUM. REFORMATIZE E-STRING = PACK TOGETHER COEFFICIENTS 1 AND 2, AND STORE THEM IN E+3. MOVE SUBSCRIPT 2 INTO E+5 (NEXT TO SUBSCRIPT 1 IN E+4). OBTAIN DIMENSION 1, AND MOVE IT INTO E+6. PACK TOGETHER ADDENDS 1 AND 2, AND STORE THEM IN E+11. GO SEARCH TAU2 TABLE. POSITION TAU2 TAG, AND PLACE TAU2 TAG IN TAG WORD. COMBINE SUBSCRIPTS 1 AND 2, AND GO TO FORTAG SECTION. PICKUP AND CONVERT COEFFICIENTS (BCD TO BINARY), AND THEN ADJUST THEM, AND STORE THEM BACK IN E+3. PICKUP ADDEND;	4F11282
	03177	0	60100	0	01131		210	E+3		PICKUP ADDEND,	4F11283
	•	_	50000	0	01141					STRIP OFF SIGN.	4F11284
	03201	0	60200	0	01347		SLW			CONVERT ADDEND	4F11285
		0	56000	0	01347		LDQ			(BCD TO BINARY) AND THEN	4F11286
	03203	0	07400	1	02566		ISA	SR6DC1:1	•		
,											

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LDQ E+11
                                                              PUT SIGN IN S-BIT OF MQ, AND
                                                                                                  4F11287
       0 56000 0 01141
                               TQP 100001
                                                              IF PLUS -- SKIP NEXT,
       0 16200 0 03207
                                                                                                   4F11288
                               ORA 2E17
                                                              IF MINUS--OR SIGN INTO BIT 18.
                                                                                                   4F11289
03206 -0 50100 0 01453
       0 76700 0 00022 1D0001 ALS 18
                                                              THEN ADJUST AND STORE
                                                                                                   4F11290
                                                              BACK INTO E+11.
                               SLW E+11
                                                                                                  4F11291
       0 60200 0 01141
                                                            * GO SEARCH TAU1 TABLE.
                                                                                                  4F11292
03211
       0 07400 4 00431
                               TSX TAULIX,4
                                                              POSITION TAUL TAG, AND
                                                                                                  4F11293
       0 76700 0 00030
                               ALS 24
03212
                                                              PLACE TAUL TAG IN TAG WORD.
03213 -0 60200 0 01126
                               ORS E
                                                                                                  4F11294
                               CAL E+4
                                                              TAKE SUBSCRIPT, AND
                                                                                                  4F11295
03214 -0 50000 0 01132
                                                              GO TO FORTAG SECTION.
                               TXI 3D0350.0
                                                                                                  4F11296
03215 1 00000 0 03117
03216 -0 50000 0 01471 NOTAG CAL FNIND
                                                              POSITION SIGMA1 TAG, AND
                                                                                                  4F11297
                                                              PLACE SIGMAL TAG IN TAG WORD.
                                                                                                  4F11298
                               ORS E
03217 -0 60200 0 01126
03220 -0 53400 1 02730 SAEXIT LXD SXR1.1
                                                              RESTORE THE C(XR1).
                                                                                                  4F11299
                                                              RESTORE THE C(XR2)
                                                                                                  4F11300
                               LXD SXR2+2
03221 -0 53400 2 02731
                               LXD SXR4,4
                                                              RESTORE THE C(XR4), AND
                                                                                                  4F11301
03222 -0 53400 4 02732
                               TRA 1.4
                                                            * EXIT TO MAIN ROUTINE.
                                                                                                  4F11302
03223 0 02000 4 00001
                                                                                                  4F11303
                                                                                                 *4F11304
                                                                                                  4F11305
                                                                                                  4F11306
                                   SUBX00,4/ CALLERS=C3000,C3300.
                                   SUBXOO ADDS BLANKS TO THE NAMES OF SUBROUTINES.
                                                              PREPARE TO COUNT CHARS AND SHIFTS. 4F11308
       0 53400 3 01414 SUBX00 LXA L(6) 3
                                                              PICKUP SUBROUTINE NAME.
                               LDQ 1G
                                                                                                  4F11309
       0 56000 0 01112
03226 -0 75400 0 00000 SUBX01 PXD +0
                                                              CLEAR THE AC, AND
                                                                                                  4F11310
                               LGL 6
                                                              SEARCH FOR A BLANK
                                                                                                  4F11311
03227 -0 76300 0 00006
                                                              CHARACTER IN THIS NAME.
                               SUB BLANK
                                                                                                  4F11312
03230 0 40200 0 01430
                                                              IF NOT BLANK, THEN
                                                                                                  4F11313
      0 10000 0 03235
                               TZE SUBX03
03231
                               TXI SUBX02,1,6
                                                              UPDATE SHIFT COUNT, AND
03232
       1 00006 1 03233
                                                              CONTINUE UNTIL 6 CHARS ARE COUNTED. 4F11315
       2 00001 2 03226 SUBX02 TIX SUBX01,2,1
03233
                                                            * RETURN TO CALLER AFTER 6TH CHAR.
      0 02000 4 00001
                               TRA 194
                                                                                                  4F11316
03234
      0 56000 0 01526 SUBX03 LDQ BLANKS
                                                              IF LESS THAN 6 CHARACTERS IN NAME, 4F11317
                                                              SHIFT ENOUGH BLANKS INTO THE AC+
                                                                                                  4F11318
03236 -0 76300 1 00044
                               LGL 36 .1
                                                              AND FILL OUT NAME WITH BLANKS.
                               ORS 1G
                                                                                                  4F11319
03237 -0 60200 0 01112
                                                            * RETURN TO CALLER.
                                                                                                  4F11320
03240 0 02000 4 00001
                               TRA 1,4
                                    END OF PROGRAM SUBXOO.
                                                                                                  4F11321
                                                                                                *4F11322
                                                                                                  4F11323
                                   TESTFX:1/ CALLERS=SS000:C3000:IFFIX.
                                                                                                  4F11324
                                   TESTFX TESTS FOR FIXED OR FLOATING POINT VARIABLES.
                                                                                                  4F11325
03241 -0 50000 0 01331 TESTFX CAL FIRSTC
                                                              COMPARE FIRST CHARACTER
                                                                                                  4F11326
                                                              WITH H.
                                                                                                  4F11327
                               CAS L(H)
03242 0 34000 0 01423
                                                              IF GREATER THAN H, COMPARE WITH 0. 4F11328
       0 34000 0 01425
                               CAS L(O)
03243
                                                           * IF NOT GREATER THAN H, LESS THAN 0,4F11329
                               TRA 1,1
03244
       0 02000 1 00001
                                                           * THEN TAKE FLOATING POINT EXIT.
                                                                                                  4F11330
      0 02000 1 00001
                               TRA 1.1
03245
                                                           * OTHERWISE. TAKE FIXED POINT EXIT.
                                                                                                  4F11331
                               TRA 2,1
      0 02000 1 00002
                                    END OF PROGRAM TESTEX.
                                                                                                  4F11332
                                                                                              * *4F11333
                                                                                                  4F11334
                                   TEST -- : 4/ CALLS=DIAG - CALLERS=C0100; C0200; C0300; C0400; C1000; 4F11335
                                   C1100,C1200,C1400,C1500,C1600,C3000,C3100,C3200,C3400,LPR.
                                                                                                 4F11336
                                   TEST. TESTS THE CHARACTER IN THE AC(30-35).
                                                                                                  4F11337
                                   TEST CHARACTER IN THE AC FOR COMMA OR ENDMARK.
                                                                                                  4F11338
03247 0 34000 0 01376 TESTAO CAS COMMA
                                                                                                 4F11339
                               TRA TESTAL
                                                                                                  4F11340
03250 0 02000 0 03252
```

							* OFTUDE TO CALLED	4E31241
03251	0	02000	4	00001		TRA	1,4	4E11341
03252	0	40200	0	01374	TESTAL	SUB	ENDMK	4511342
03253	0	10000	4	00001		TZE	1,4 RETURN TO CALLER.	4511040
03254	0	07400	4	03400		TSX	DIAG,4 * ERROR GO TO DIAGNOSTIC.	4511344
							TEST CHARACTER IN THE AC FOR COMMA OR CLOSED PARENTHESIS.	4111345
03255	0	34000	0	01376	TESTB0	CAS	COMMA	4F11346
03256	0	02000	0	03260		TRA	TESTB1	4F11347
03257	Õ	02000	4	00001		TRA	1,4 * RETURN TO CALLER.	4F11348
03260	ñ	40200	'n	01377	TESTB1	SUB	CLOS	4F11349
03261	ň	10000	ĭ	00001		TZE	* RETURN TO CALLER.	4F11350
03261	č	07400	4	03400		TSX	DIAG.4 * ERROR GO TO DIAGNOSTIC.	4F11351
03262	٠	07400	•	03400			TEST CHARACTER IN THE AC FOR OPEN PARENTHESIS OR ENDMARK.	4F11352
	^	24000	^	01275	TESTON	C 4 S	OPEN	4F11353
03263	0	34000	v	01212	ILSICO	TDA	TECTC1	4F11354
03264	0	02000	Ö	03266		TDA	PETHON TO CALLED.	4F11355
03265	0	02000	4	00001		IKA	194 REFORM TO CALLERS	4F11256
03266	0	40200	0	01374	TESICI	SUB	ENDMK	4F11257
03267	0	10000	4	00001		IZE	COMMA TESTB1 1,4	4F11350
03270	0	07400	4	03400		TSX	DIAG.4 * ERROR GO TO DIAGNOSTICS	4F11250
							TEST CHARACTER IN THE AC FOR ENDMARK.	4F11333
03271	0	34000	0	01374	TESTD0	CAS	ENDMK	4511360
03272	0	07400	4	03400	ERR77P	TSX	DIAG,4 # MACHINE ERROR, GO TO DIAGNOSTIC.	4511361
03273	0	02000	4	00001		TRA	1,4 * RETURN TO CALLER.	4F11362
03274	0	07400	4	03400		TSX	DIAG,4 * ERROR GO TO DIAGNOSTIC.	4111363
				•			TEST CHARACTER IN THE AC FOR OPEN PARENTHESIS.	4F11364
03275	0	34000	0	01375	TESTEO	CAS	OPEN	4F11365
03276	0	02000	0	03300		TRA	TESTE1	4F11366
03277	ō	02000	4	00001		TRA	1,4 # RETURN TO CALLER.	4F11367
03300	0	07400	4	03400	TESTE1	TSX	DIAG,4 # ERROR GO TO DIAGNOSTIC.	4F11368
42244	Ţ	• • • • • •	•				TEST CHARACTER IN THE AC FOR CLOSED PARENTHESIS.	4F11369
03301	Λ	34000	n	01377	TESTEO.	CAS	CLOS	4F11370
03301	ŏ	02000	ň	03304		TRA	TESTE1	4F11371
03302	ŏ	02000	4	00001		TRA	1.4 * RETURN TO CALLER.	4F11372
03303	ň	07400	4	03400	TESTE1	TSX	DIAG.4 * ERROR GO TO DIAGNOSTIC.	4F11373
05504	٠	0,400	•	03400	120112		TEST CHARACTER IN THE AC FOR COMMA.	4F11374
A220E	^	24000	•	01376	TESTGO	CAS	COMMA	4F11375
03305	ŏ	02000	~	02310	, 20.00	TRA	TESTG1	4F11376
03300	ŏ	02000	ž	00001		TPA	* RETURN TO CALLER.	4F11377
03307	ŏ	02000	7.	03400	TESTG1	TSY	DIAG.4 * FRROR GO TO DIAGNOSTIC.	4F11378
03310	U	01400	4	05400	123101		TEST CHARACTER IN THE AC FOR NON-NUMERICA	4F11379
	_		_	01417	TECTUO	CAS	1101	4F11380
03311	Û	34000	Ú	01411	153100	TDA	1.4 # RETURN TO CALLER.	4F11381
03312	0	02000	4	10000		AZZ	177 - MELVIOL TO CHECKIA	4F11382
03313	0	76100	0	00000		NOP	TAC /	4F11282
03314	0	07400	4	03400		ISX	DIAG 4 "ERROR — GO TO DIAGNOSTICS	4F11284
							TEST CHARACTER IN THE AC FOR NUMERICS	4F11204
03315	0	34000	0	01417	TESTIO	CAS	L(9)	4F11303
03316	0	07400	4	03400		TSX	DIAG+4 * ERRUR - GO TO DIAGNOSTICA	4511380
03317	0	02000	4	00001		TRA	1,4 * REJURN TO CALLER	4511387
03320	0	02000	4	00001		TRA	TEST CHARACTER IN THE AC FOR ENDMARK. ENDMK DIAG,4 PIAG,4 PERTURN TO CALLER. PEROR — GO TO DIAGNOSTIC. ** RETURN TO CALLER. ** RETURN TO CALLER. ** RETURN TO CALLER. ** RETURN TO CALLER. ** ERROR — GO TO DIAGNOSTIC. ** RETURN TO CALLER. ** ERROR — GO TO DIAGNOSTIC. ** RETURN TO CALLER. ** ERROR — GO TO DIAGNOSTIC. ** ERROR — GO TO DIAGNOSTIC. ** EST CHARACTER IN THE AC FOR CLOSED PARENTHESIS. ** RETURN TO CALLER. ** PEROR — GO TO DIAGNOSTIC. ** ERROR — GO TO DIAGNOSTIC. ** ERROR — GO TO DIAGNOSTIC. ** RETURN TO CALLER. ** PEROR — GO TO DIAGNOSTIC. ** RETURN TO CALLER. ** PEROR — GO TO DIAGNOSTIC. ** RETURN TO CALLER. ** PEROR — GO TO DIAGNOSTIC. ** RETURN TO CALLER. ** PEROR — GO TO DIAGNOSTIC. ** PEROR — GO TO DIAGNOS	4511388
			٠				END OF PROGRAM TEST •••	4711389
							* * * * * * * * * * * * * * * * * * * *	#4F11390
								4F11391
							TET00,1/ CALLERS=CA000,CC000,C0100,C0200,C0300,C1300,C1400,	4F11392
							C1500,C3000,C3100,SS000,FOR,SPC,CMA,EMK,LIB,VRA(VRD).	4F11393
							TETOO MAKES ENTRIES IN THE TAPE TABLES. WHEN A BUFFER IS	4F11394

```
4F11395
                                  FULL IT IS WRITTEN AS A RECORD ONTO TAPE 4.
                                                                                                 4F11396
                                                             SAVE THE C(XR2)+
03321 -0 63400 2 01100 TET00
                              SXD TETXR2,2
                                                                                                 4F11397
                                                             SAVE THE C(XR4), AND
                              SXD TETXR4,4
03322 -0 63400 4 01101
                                                             SAVE THE C(MQR).
                                                                                                 4F11398
                              STQ TETMOR
03323 -0 60000 0 01103
                                                                                                 4F11399
                                                             COMPUTE TABLE NUMBER
                              CLA 1,1
       0 50000 1 00001
03324
                                                                                                 4F11400
                                                             TIMES 3
                              ALS 1
03325
       0 76700 0 00001
                                                                                                 4F11401
                                                             AND
                              ADD 1:1
       0 40000 1 00001
03326
                                                             PLACE THE 2S COMPLEMENT
                                                                                                 4F11402
                              COM
03327
       0 76000 0 00006
                                                                                                 4F11403
                                                             OF THIS
                              ADD L(1)
      0 40000 0 01407
03330
                                                                                                 4F11404
                                                             IN XR2.
       0 73400 2 00000
                              PAX +2
03331
                                                             OBTAIN THE CURRENT
                                                                                                 4F11405
                              CLA INTET+2
       0 50000 2 00322
03332
                                                                                                 4F11406
                                                             B (BUFFER CAPACITY),
                              ARS 18
03333
       0 77100 0 00022
                                                             AND SAVE IT. THEN
                              STO TETWRK
03334
       0 60100 0 01102
                                                             GET P (PORTION OF BUFFER FULL);
                                                                                                 4F11408
                              CLA INTET+2,2
       0 50000 2 00324
03335
                                                                                                 4F11409
                                                             AND
                              ARS 18
      0 77100 0 00022
03336
                                                                                                 4F11410
                                                             COMPARE TO B.
                              SUB TETWRK
03337 0 40200 0 01102
                                                                                                 4F11411
                                                             IF BUFFER IS FULL,
                              TNZ TETO3
03340 -0 10000 0 03356
                                                                                                 4F11412
                                                             SET P = O. AND
                              STD INTET+2,2
       0 62200 2 00324
03341
                                                             PREPARE TO WRITE BLOCK ON TABTAP.
                                                                                                 4F11413
                              WRS TABTAP
       0 76600 0 00224 TET01
03342
                                                                                                 4F11414
                                                             SET XR4 = BLOCK SIZE (B).
                              LXA TETWRK 94
       0 53400 4 01102
03343
                                                             ADD BLOCK SIZE TO
                                                                                                 4F11415
                              CLA TETWRK
       0 50000 0 01102
03344
                                                             ORIGIN OF CURRENT BLOCK (0) +
                                                                                                 4F11416
                              ADD INTET+2
       0 40000 2 00322
03345
                                                             AND SET ADDRESS OF COPY LOOP (0+B)+4F11417
                              STA TETO2
03346
       0 62100 0 03350
                                                             COPY TABLE NUM FOR IDENTIFICATION. 4F11418
                              CPY 1:1
       0 70000 1 00001
03347
                                                             WRITE BLOCK ONTO
                                                                                                 4F11419
       0 70000 4 00000 TET02
                              CPY ** 94
03350
                                                             TABLE TAPE, AND
                                                                                                 4F11420
       2 00001 4 03350
                              TIX TET02,4,1
03351
                                                                                                 4F11421
                                                             WHEN DONE,
                              TOD
       0 76600 0 00333
03352
                                                                                                 4F11422
                                                             INCREASE C (BLOCK COUNT)
                              CLA INTET+2,2
03353
       0 50000 2 00324
                                                                                                 4F11423
                                                             BY 1 FOR
                              ADD L(1)
       0 40000 0 01407
03354
                                                             BLOCK JUST WRITTEN ON TABLE TAPE.
                                                                                                 4F11424
                              STA INTET+2.2
       0 62100 2 00324
03355
                                                             ADD P (PORTION OF BUFFER FULL)
                                                                                                 4F11425
                              CLA INTET+2,2
       0 50000 2 00324 TET03
                                                             TO O (ORIGIN OF CURRENT TABLE
                                                                                                 4F11426
                              ARS 18
       0 77100 0 00022
03357
                                                                                                 4F11427
                                                             BUFFER) TO SET
                              ADD INTET+2
       0 40000 2 00322
03360
                                                             ADDRESS OF ENTRY LOOP (P+0).
                                                                                                 4F11428
                              STA TETO5
03361
       0 62100 0 03371
                                                             OBTAIN CURRENT A (ENTRY ADDRESS).
                                                                                                4F11429
                              CLA INTET+1+2
       0 50000 2 00323
03362
                                                             AND SET ADDRESS OF ENTRY LOOP.
                                                                                                 4F11430
                              STA TETO4
       0 62100 0 03370
03363
                                                             SET XR4 = E (ENTRY LENGTH IN WRDS) . 4F11431
                              PDX 94
03364 -0 73400 4 00000
                                                             INCREASE P BY E TO ACCOUNT
                                                                                                 4F11432
                              ADD INTET+2.2
03365 0 40000 2 00324
                                                             FOR FOLLOWING ENTRY.
                                                                                                 4F11433
                              STD INTET+2+2
03366 0 62200 2 00324
                                                             SET XR2 = 0. THEN
                                                                                                 4F11434
                              LXD L(0),2
03367 -0 53400 2 01406
                                                             MOVE THE CURRENT ENTRY
                                                                                                 4F11435
      0 50000 2 00000 TET04
                              CLA **,2
03370
                                                             INTO THE CURRENT TABLE BUFFER, AND 4F11436
      0 60100 2 00000 TET05
                              STO ** 2
03371
                                                                                                 4F11437
                                                             WHEN
                               TXI TET06,2,-1
      1 77777 2 03373
03372
                                                             DONE ,
                                                                                                 4F11438
                              TIX TETO4,4,1
      2 00001 4 03370 TET06
03373
                                                                                                 4F11439
                                                             RESTORE ORIGINAL C(MQR),
03374 0 56000 0 01103
                              LDQ TETMOR
                                                                                                 4F11440
                                                             RESTORE ORIGINAL C(XR2)+
                              LXD TETXR2,2
03375 -0 53400 2 01100
                                                             RESTORE ORIGINAL C(XR4). AND
                                                                                                 4F11441
03376 -0 53400 4 01101
                              LXD TETXR4#4
                                                           # EXIT TO MAIN ROUTINE.
                                                                                                 4F11442
                              TRA 2:1
03377 0 02000 1 00002
                                                                                                 4F11443
                                   END OF PROGRAM TETOO.
                                                                                                *4F11444
                                   DIAGNOSTIC CALLERS=CD000,CB000,CC000,CA100,C0200,C0300,C0900,4F11446
                                   C1000,C1200,C3000,C3100,C3200,C3400,C0150,C0160,C0180,TEST...,4F11447
                                   SR6DC1+DRTABS+RDRX+DIM+SR+SS000+ROYCNV+RDC+RSC+LPR+EQS+RPR+ 4F11448
```

```
4F11449
                                 CMA, EMK, BEG(TYP), VRA(VRD).
                                 (CAOOO ALSO CALLS THE DIAGNOSTIC AFTER ALL STATEMENTS HAVE
                                                                                             4F11450
                                 BEEN PROCESSED. IF THERE HAVE BEEN NO PREVIOUS CALLS TO
                                                                                             4F11451
                                 THE DIAGNOSTIC DURING SECTION ONE. THEN IPRIME IS CALLED.)
                                                                                             4F11452
                                                        * GO GET THE DIAGNOSTIC.
                                                                                             4F11453
                            TXI 4.0
      1 00000 0 00004 DIAG
                                                                                             4F11454
                                  END OF DIAGNOSTIC CALLERS.
                                 ROUTINE TO COMPILE FLOW TRACING INSTRUCTIONS.
                                                                                             4F11457
                                                  SAVE CALLING TAG.
                                                                                             4F114571
03401 -0 63400 4 03437 FLTR00 SXD FLTR05,4
                                                  GET LAST INTERNAL AND EXTERNAL FORMULA NOS.4F114572
                             CLA EIFNO
03402 0 50000 0 00030
                                                  PLACE LAST EFN IN DEC OF NTR INSTRUCTION. 4F114573
                            STA ENT
      0 62100 0 02067
03403
                                                                                            4F114574
                            ARS 18
03404 0 77100 0 00022
                                                  PLACE LAST IFN IN DEC OF PZE
                                                                                            4F114575
                            STA NZE
03405 0 62100 0 02070
                                                                                            4F114576
                            LXD ARGCTR+4
03406 -0 53400 4 01122
                                                IS THIS AN FN FUNCTION, NO SKIP.
                                                                                            4F114577
                            TXL FLTR01,4,0
03407 -3 00000 4 03413
                                                                                            4F114578
                             STZ 1C+2
03410 0 60000 0 01107
                                                  SET ADDRESS TO -1
                                                                                            4F114579
                             CLS 2E18
03411 0 50200 0 01454
                                                                                            4F11457A
                             TRA FLTRO3
      0 02000 0 03423
03412
                                                  IS THIS A MAIN PROGRAM OR SUBPROGRAM.
                                                                                            4F11457B
03413 0 50000 0 00365 FLTR01 CLA SBDFCN
                                                                                            4F11457C
                                                  SKIP ON SUBPROGRAM
03414 -0 10000 0 03420
                             TNZ FLTRO2
                                                                                            4F11457D
                                                  SET ADDRESS TO 0
                             STZ 1C+2
03415 0 60000 0 01107
                                                                                            4F11457E
                             STZ 1C+3
03416 0 60000 0 01110
                                                                                            4F11457F
                             TRA FLTR04
03417 0 02000 0 03424
                                                                                            4F11457G
                                                  SET ADDRESS TO $+2
     0 50000 0 01523 FLTR02 CLA DOLSGN
                                                                                            4F11457H
                             STO 1C+2
03421 0 60100 0 01107
                                                                                            4F11457I
                             CLA D2
03422 0 50000 0 01457
                                                 SET RELATIVE ADDRESS WORD OF CIT.
                                                                                            4F11457J
      0 60100 0 01110 FLTR03 STO 1C+3
                                                                                            4F11457K
      0 07400 4 01731 FLTR04 TSX CIT00+4
03424
                                                                                            4F11457L
                                                  COMPILE
                                                               NTR *+2,0,EFN
                             PZE L(0)
      0 00000 0 01406
03425
                                                                                            4F11457M
                             PZE ENT
     .0 00000 0 02067
03426
                                                                                            4F11457N
                             PZE 15P
     0 00000 0 01510
                                                                                            4F114570
                             PZE D2
03430 0 00000 0 01457
                                                                                            4F11457P
                             TSX CITOO,4
      0 07400 4 01731
03431
                                                  COMPILE
                                                             PZE ALPHA . O . IFN
                             PZE L(0)
03432
      0 00000 0 01406
                                                  WHERE ALPHA IS 0 FOR MAIN PROGRAM, $+2 FOR 4F11457R
                             PZE NZE
      0 00000 0 02070
                                                  SUBPROGRAM, OR -1 FOR FN FUNCTION IN EITHER4F11457S
                             PZE 1C+2
      0 00000 0 01107
03434
                                                  MAIN OR SUBPROGRAM.
                                                                                            4F11457T
                             PZE 1C+3
     0 00000 0 01110
                                                                                            4F11457U
                             LXD FLTR05,4
03436 -0 53400 4 03437
                                                 GO COMPILE LXD M(+4 OR 7(TYPE=+4
                                                                                            4F11457V
03437 1 00000 0 01731 FLTR05 TXI CIT00.0.**
                                                                                            4F11457W
                                                                                            4F11458
                                                                                            4F11459
                                  END OF THE COMMON PART OF SECTION ONE.
                                                                                     * * * *4F11461
                                                                                            4F11462
                                 SECTION 1 / INITIALIZATION =
                                 704 FORTRAN MASTER RECORD CARD / INITIALIZATION = F0150000. 4F11464
                                                                                            4F114641
                             ORG 0
                 00000
                                                                                            4F114642
                             PZE FORSUB, 1TOCS
00000 0 00004 0 00471
                                                                                            4F114643
                             PZE DMWR98
00001 0 00000 0 00600
                                                                                            4F11465
                             ORG FORSUB
                 00471
                                INITIALIZATION OCCUPIES FORSUB BUFFER AND IS WRITTEN OVER
                                                                                            4F11466
                                 BY FORSUB ENTRIES IF THERE ARE ANY FORTRAN FUNCTIONS IN THE 4F11467
```

```
4F11468
                                  PROGRAM.
                                                                                           * * *4F11469
                                                                                                4F11470
                                                                                                4F11471
                                  PART 1 / CLEAR DRUMS 1,2,3,4, AND REWIND TAPES 2,3,4 =
                                                                                                4F11472
                                                            CLEAR DRUMS 1,2,3,4 TO +0.
00471 0 53400 1 00575 CLDR00 LXA CLDR07+1
                                                                                                4F11473
00472 0 76600 1 00305 CLDR01 WRS 197.1
                                                                                                4F11474
                              LXD CLDR07.2
00473 -0 53400 2 00575
                                                                                                4F11475
      0 70000 0 00576 CLDR03 CPY CLDR08
00474
                                                                                                4F11476
                             TIX CLDR03,2,1
      2 00001 2 00474
00475
                                                                                                4F11477
      2 00001 1 00472
                             TIX CLDR01,1,1
00476
                                                            REWIND WORKING TAPES 2,3,4.
                             REW 146
      0 77200 0 00222
00477
                                                                                                4F11479
      0 77200 0 00223
                              REW 147
00500
                                                                                                4F11480
                              REW 148
00501 0 77200 0 00224
                                                                                                4F11481
                                   END OF INITIALIZATION / PART 1.
                                                                                                4F11484
                                  PART 2 / WRITE STATES A.B.C.D ON DRUMS1.3.4.2=
                                                            PREPARE TO WRITE STATE D ON DRUM 2:4F11485
      0 53400 4 01411 DMWR01 LXA L(3) +4
00502
                              TRA DMWR11
      0 02000 0 00513
00503
                                                            PREPARE TO WRITE STATE C ON DRUM 4.4F11487
      0 53400 4 01407 DMWR03 LXA L(1) +4
00504
                                                                                                4F11488
                              TRA DMWR11
      0 02000 0 00513
00505
                                                            PREPARE TO WRITE STATE B ON DRUM 3.4F11489
      0 53400 4 01410 DMWR06 LXA L(2),4
00506
                              TRA DMWR11
      0 02000 0 00513
00507
                                                            PREPARE TO WRITE STATE A ON DRUM 1.4F11491
      0 53400 4 01412 DMWR09 LXA L(4),4
00510
                                                            THIS IS FINAL STATE TO BE WRITTEN, 4F11492
                              CLA DMWR98
      0 50000 0 00600
00511
                                                            CHANGE ADDRESS TO GET OUT OF LOOP. 4F11493
                              STA DMWR40
      0 62100 0 00546
00512
                                                            GET LENGTH OF CURRENT STATE.
                                                                                                4F11494
      0 50000 4 02437 DMWR11 CLA ZETA+4,4
00513
                                                                                                4F11495
                                                            LENGTH OF STATE TO IR2.
                              PDX +2
00514 -0 73400 2 00000
                                                                                                4F11496
                                                            SAVE LENGTH.
                              SXD CHECK 2
00515 -0 63400 2 00574
                                                            LENGTH + ORIGIN TO PREPARE FOR CK 4F11497
                              ARS 18
      0 77100 0 00022
00516
                                                                                                4F11498
                                                            SUM AND COPY LOOPS.
                              ADD MTR3
      0 40000 0 02430
00517
                                                                                                4F11499
                              STA DMWR20
     0 62100 0 00523
00520
                                                                                                4F11500
                              STA DMWR26
      0 62100 0 00533
00521
                                                            CLEAR AC AND COMPUTE CK SUM.
                                                                                                4F11501
                              PXD .0
00522 -0 75400 0 00000
                                                                                                4F11502
      0 36100 2 00000 DMWR20 ACL **,2
00523
                                                                                                4F11503
                              TIX DMWR20,2,1
      2 00001 2 00523
00524
                                                                                                4F11504
                              SLW DRCKSM
      0 60200 0 01103
00525
                                                            SET FOR FIVE ATTEMPTS.
                                                                                                4F11505
                              LXA DRMERC 1
      0 53400 1 01413
00526
                                                            PREPARE TO WRITE DRUM.
                                                                                                4F11506
      0 76600 4 00305 DMWR23 WDR 5+4
                                                                                                4F11507
                              LXD CHECK + 2
00530 -0 53400 2 00574
                                                                                                4F11508
                              LDA ZETA+4+4
       0 46000 4 02437
00531
                                                                                                4F11509
                                                            WRITE CK SUM ON DRUM.
                              CPY DRCKSM
      0 70000 0 01103
00532
                                                                                                4F11510
                                                            WRITE STATE ON DRUM.
      0 70000 2 00000 DMWR26 CPY ** +2
00533
                                                                                                4F11511
                              TIX DMWR26,2,1
      2 00001 2 00533
00534
                                                            PREPARE TO READ STATE BACK.
                                                                                                4F11512
                              RDR 5,4
      0 76200 4 00305
00535
                                                                                                4F11513
00536 -0 53400 2 00574
                              LXD CHECK+2
                                                                                                4F11514
                              LDA ZETA+4,4
00537 0 46000 4 02437
                                                            CLEAR AC AND READ BACK CK SUM AND
                                                                                              4F11515
00540 -0 75400 0 00000
                              PXD .0
                                                                                                4F11516
                              CAD GARBGE
                                                            STATE.
00541 -0 70000 0 00573
                                                                                                4F11517
00542 0 76000 0 00006
                              COM
                                                                                                4F11518
                                                            RECOMPUTE CK SUM.
00543 -0 70000 0 00573 DMWR32 CAD GARBGE
                                                                                                4F11519
                              TIX DMWR32,2,1
      2 00001 2 00543
00544
                                                                                                4F11520
                              COM
      0 76000 0 00006
00545
                                                        * CK SUMS AGREE, GO GET NEXT STATE. 4F11521
      0 10000 0 00004 DMWR40 TZE 1TOCS
```

```
00547 2 00001 1 00527 TIX DMWR23+1+1 SET MONITOR TO RETURN TO THIS 4F11522 O0550 0 50000 0 00577 CLA DMWR89 SET MONITOR TO RETURN TO THIS 4F11523 PROGRAM INSTEAD OF TO STATE A. 4F11524 O0552 -3 00003 4 00554 TXL DMWR80+4+3 TEST FOR STATE A IN PROGRESS. 4F11525 O0553 0 07400 4 03400 TXL DMWR80 TXL DMWR82+4+2 TEST FOR STATE D IN PROGRESS. 4F11526 O0555 0 76200 0 00221 RTB 1 SPACE OVER STATE C RECORD. 4F11528 O0560 0 76200 0 00221 RTB 1 SPACE OVER STATE B RECORD. 4F11529 O0560 0 00000 0 00000 TXL DMWR82 TXL DMWR84+4+1 TEST FOR STATE B IN PROGRESS. 4F11531 O0560 0 76200 0 00221 RTB 1 SPACE OVER STATE B RECORD. 4F11531 O0561 -3 00001 4 00564 DMWR82 TXL DMWR84+4+1 TEST FOR STATE B IN PROGRESS. 4F11532 O0564 0 76200 0 00221 RTB 1 SPACE OVER STATE B RECORD. 4F11532 O0564 0 76200 0 00221 RTB 1 SPACE OVER STATE B IN PROGRESS. 4F11533 O0566 0 07400 4 03400 TSX DIAG+4 STATE B CANNOT BE WRITTEN ON DRUM2+4F11531 O0566 0 07400 4 03400 TSX DIAG+4 STATE B CANNOT BE WRITTEN ON DRUM2+4F11533 O0566 0 07400 4 03400 TSX DIAG+4 STATE B CANNOT BE WRITTEN ON DRUM3+4F11534 O0566 0 07400 4 03400 TSX DIAG+4 STATE B CANNOT BE WRITTEN ON DRUM3+4F11535 O0566 0 07400 4 03400 TSX DIAG+4 STATE B CANNOT BE WRITTEN ON DRUM3+4F11535 O0566 0 07400 4 03400 TSX DIAG+4 STATE B CANNOT BE WRITTEN ON DRUM3+4F11536 O0567 0 53400 4 01406 DMWR88 LXA L(0)+4 STATE C CANNOT BE WRITTEN ON DRUM4+4F11537 O0570 0 02000 0 03400 TRA DIAG PRINTILLIZATION PART 2.

**STATE C CANNOT BE WRITTEN ON DRUM3+4F11536 O0570 0 02000 0 03400 TRA DIAG PRINTILLIZATION PART 2.

**STATE C CANNOT BE WRITTEN ON DRUM3+4F11536 O0570 0 02000 0 03400 TRA DIAG PRINTILLIZATION PART 2.
                                                                  END OF INITIALIZATION / PART 2.
                                                                              4F11544
                                                                              PART 3 / VARIABLES AND CONSTANTS USED BY INITIALIZATION=
                                                                                                                                                                                                                  4F11545
 00573 GARBGE BSS 1 ERASABLE STORAGE. 4F11546
00574 0 00000 0 00000 CHECK PZE *** SAVING CELL FOR LENGTH OF STATE. 4F11547
00575 0 04000 0 00004 CLDR07 PZE 4**2048 CONSTANT FOR CLEARING DRUMS. 4F11548
00576 0 00000 0 00000 CLDR08 PZE 0 CONSTANT FOR CLEARING DRUMS. 4F11549
00577 0 02000 0 00567 DMWR89 TRA DMWR88 CONSTANT FOR ERROR ROUTINE. 4F11550
00600 0 00000 0 00571 DMWR98 PZE DMWR99 CONSTANT FOR ADDRESS MODIFICATION. 4F11551
                                                                      END OF INITIALIZATION / PART 3.
                                                                              4F11554
                                                                                                                                                                                                                        4F11555
                                                                              SECTION 1 / STATEA =
                                                                                                                                                                                                                        4F11556
                                                                              704 FORTRAN MASTER RECORD CARD / STATE A = F0190000.
                                                                                                                                                                                                                      4F11557
                                                                     ORG 0
                                                                                                                                                                                                                        4F115571
                                        00000
                                                                                                                                                                                                                        4F115572
  00000 0 00510 0 03440
                                                                     PZE ORGA .. DMWR09
                                                                     PZE ENDA-1
                                                                                                                                                                                                                        4F115573
  00001 0 00000 0 07306
                                                                                                                                                                                                                        4F11558
                                                                              NAME
                                                                                                                                    FUNCTION
                                                                                                                                                                                                                      4F11559
                                                                                                                                    ASSEMBLE STATEMENTS
                                                                              PART 1 / ASSEMBLE AND CLASSIFY ALL STATEMENTS=
                                                                              CA000
                                                                                                                                        SCAN FOR HOLLERITH AND ILLEGAL CHS.4F11562
                                                                              CD000
                                                                                            CLASSIFY=ARITHMETIC/NON-ARITHMETIC 4F11563
CLASSIFY=WHICH NON-ARITHMETIC 4F11563
                                                                              CB000
                                                                                                                                        CLASSIFY=WHICH NON-ARITHMETIC. 4F11564
                                                                              CC000
                                                                              PART 2 / PROCESS CONTROL AND SPECIFICATION STATEMENTS=
                                                                                                                                                                                                                      4F11565
                                                                                                                                                                                                                      4F11566
                                                                              C0100
                                                                                                                                        DO.
                                                                                                                                                                                                                      4F11567
                                                                              C0200
                                                                                                                                        GO TO.
                                                                                                                                                                                                                      4F11568
                                                                              C0300
                                                                                                                                     IF.
                                                                              C0400
                                                                                                                                    IF (SENSE SWITCH.
                                                                                                                                                                                                                     4F11569
                                                                                                                                IF ISENSE LIGHT.
IF DIVIDE CHECK.
                                                                                                                                                                                                                    4F11570
                                                                              C0500
                                                                              C0600
                                                                                                                                                                                                                    4F11571
                                                                                                                                     IF AC OVERFLOW.
                                                                                                                                                                                                                     4F11572
                                                                              C0700
```

C0800	IF MQ OVERFLOW.	4F11573
C0900	PAUSE.	4F11574
C1000	ASSIGN.	4F11575
C1100	SENSE LIGHT.	4F11576
C1200	DIMENSION.	4F11577
C1300	ASSIGN. SENSE LIGHT. DIMENSION. STOP. FREQUENCY. EQUIVALENCE. CONTINUE.	4F11578
C1400 C1500 C1600	FREQUENCY.	4F11579 4F11580
C1500 · į	EQUIVALENCE.	4F11581
	CONTINUE.	4F11582
C3000 (C3500)	SUBROUTINE / FUNCTION.	4F11583
C3100	COMMON.	4F11584
C3200	RETURN.	4F11585
C3300	CALL.	4F11586
C3400	ENU.	4F11587
PART 3 / PROCESS INPUI-OUT	PUI SIAIEMENIS=	4F11588
RDC	READ CARDS	4F11589
RIT	READ INFOI TAPES	4F11590
RDP	PKINIE	4F11591
WOT	WRITE OUTPUT TAPES	4F11592
PDC .	PUNCHO TARE	4F11593
WBT	WRITE TAPE	4F11594
RBT	KEAD JAPE.	4F11595
WRD	MKITE DRUM	4F11596
RDD	KERD DRUMA	4F11597
EFT	END FILE.	4F11598
RWN	REWINDS	4F11599
BSP	EADMAT.	4F11600
FOR	CALL. END. PUT STATEMENTS= READ CARD. READ INPUT TAPE. PRINT. WRITE OUTPUT TAPE. PUNCH. WRITE TAPE. READ TAPE. WRITE DRUM. READ DRUM. END FILE. REWIND. BACKSPACE. FORMAT. RESET AND SCAN.	4F11601
KSC		4F11602
LISTR	LEFT PARENTHESIS IN LIST SCAN.	4F11603
LPR	EQUAL SIGN IN LIST SCAN.	4F11604
EQS	CONTROL FOR SPECIFICATION SCAN.	4F11605
SPCTR	SUBSCRIPT SPECIFICATIONS.	4F11606
SPC.	RIGHT PARENTHESIS IN LIST SCAN.	4F11607
RPR	COMMA IN LIST SCAN.	4F11608
CMA	ENDMARK IN LIST SCAN.	4F11609
PART 4 / SUBROUTINES USED	BY STATE A=	4F11610
PARI 4 / SUBROUTINES USED	BEGINNING SCAN AND TYPE TEST.	4F11611
BEG(TYP),4	CONTROL FOR BEGINNING SCAN.	4F11612
BEGIK	BINARY READ OR WRITE COMPILER.	4F11613
BKW94	COMPILES= IFN BSS 0.	4F11614
85512	READ SOURCE PROGRAM TAPE.	4F11615
CA100+4	SCAN DICTIONARY.	4F11616
CC30094	IF SWENOP COMPILES ETM(LTM) SLED	
EIM(EIM) SW14	IF SW=NOP, COMPILES ETM(LTM). SL=0. SETS UP FORVAR OR FORVAL ENTRY.	4F11618
THEOLET VOICE 2	COMPILES CAL *, AND XIT (LEV).	4F11619
BEG(TYP),4 BEGTR BRW,4 BSS,2 CA100,4 CC500,4 ETM(LTM)SW,4 IFFIX,1 IN(OUT)PUT,2 LIB,1	MAKES CLOSUB ENTRY, COMPILES CIT.	4F11620
	MAKES FORVAR, FIXCON, CIT ENTRIES.	4F11621
VRA(VRD),4 PART 5 / CONSTANTS AND VAR	TABLES USED BY STATE A.	4F11622
DIC	DICTIONARY.	4F11623
T T	TRANSFER TABLE.	4F11624
•		4F11625
THE FOLLOWING CONVENTIONS	ARE USED IN THIS LISTING=	4F11626
THE TOREGINE CONTENT TONG		
•		

```
4F11627
                                  ** IN THE ADDRESS, TAG, OR DECREMENT OF AN INSTRUCTION
                                                                                                  4F11628
                                  INDICATES THAT THIS FIELD WILL BE MODIFIED BY THE PROGRAM.
                                                                                                  4F11629
                                  # IN COL/36 INDICATES THE INSTRUCTION IS A TRANSFER OUT OF
                                                                                                 4F11630
                                  THIS LOGICAL BLOCK OR SUBROUTINE.
                                                                                                 4F11631
                                  C IN COL/34 INDICATES THE INSTRUCTION WAS CORRECTED.
                                                                                                 4F11632
                                  P IN COL/32 INDICATES THE INSTRUCTION WAS INSERTED (PATCH).
                                                                                                 4F11633
                                                                                                 4F11634
                                                                                                 4F11636
                                  STATEA/1-ASSEMBLE AND CLASSIFY ALL STATEMENTS=
                                                                                                 4F11637
                                                                                                 4F11638
                 03440 ORGA
                              ORG 1824
                                                                                              * *4F11639
                                                                                                 4F11640
                                                                                                 4F11641
                                  CADDO/ CALLS=CA100,SR6DC1,TET00,D1AG.
                                  CADOO ASSEMBLES STATEMENT IN THE F-REGION AND ASSIGNS AN IFN.4F11642
                                                             IF THE FINAL STATEMENT HAS BEEN
                                                                                                 4F11643
03440 -0 53400 4 02575 CA010
                              LXD ENDWRD 4
                              TXL DIAG . 4 . 0
                                                           * PROCESSED. THEN GO CALL DIAGNOSTIC.4F11644
03441 -3 00000 4 03400
                                                             KEEP INTERNAL FORMULA NUMBER
                              LXD EIFNO.1
                                                                                                 4F11645
03442 -0 53400 1 00030
                                                             (DECR PART OF EIFNO)
                                                                                                 4F11646
                              TXI CA013,1,1
03443 1 00001 1 03444
                                                             UP TO DATE BY ADDING 1.
                                                                                                 4F11647
03444 -0 63400 1 00030 CA013
                              SXD EIFNO,1
                                                             OBTAIN HOLLERITH CODED 5-DIGIT
                              CAL FT
                                                                                                 4F11648
03445 -0 50000 0 01333
                                                             EXTERNAL FORMULA NO IN ACC.
                                                                                                 4F11649
03446 0 77100 0 00006
                              ARS 6
                                                             AND RETAIN IN F-01.
                                                                                                 4F11650
03447 0 60200 0 01151
                              SLW F-1
                                                             INITIALIZE INDEX A TO COMPL OF F.
                                                                                                 4F11651
03450 -0 53400 1 01670
                              LXD DCF +1
                                                             SET UP LOOP FOR 11 CYCLES.
                                                                                                 4F11652
03451 0 53400 2 01400 CA018
                              LXA L(11),2
                                                             MOVE WORD FROM REGION FT
                              LDQ FT+12,2
                                                                                                 4F11653
03452 0 56000 2 01347 CA019
                                                             TO REGION F.
                                                                                                 4F11654
03453 -0 60000 1 00000
                              STQ 0.1
                                                             KEEP F-REGION ADDRESS UP-TO-DATE.
                                                                                                 4F11655
                              TIX CA020,1,1
03454 2 00001 1 03455
                                                             TEST END OF LOOP.
                                                                                                 4F11656
Q3455 2 00001 2 03452 CA020
                              TIX CA019,2,1
                                                           # GO READ NEXT NON-BLANK CARD.
                                                                                                 4F11657
                              TSX CA100+4
03456 0 07400 4 05702
                              CAL FT
                                                             TEST RIGHTMOST CHARACTER OF
                                                                                                 4F11658
03457 -0 50000 0 01333
                                                             FIRST WORD FOR CONTINUATION MARK,
                              ANA L(63)
                                                                                                 4F11659
03460 -0 32000 0 01374
                                                             IF ZERO OR BLANK.
                                                                                                 4F11660
                              TZE CA021
03461 0 10000 0 03464
                                                             DISCONTINUE READING,
                                                                                                 4F11661
                              SUB ABLANK
03462 0 40200 0 01430
                                                             OTHERWISE CONTINUE.
                                                                                                 4F11662
03463 -0 10000 0 03451
                              TNZ CA018
                                                             BEGIN SCANNING REGION F BACKWARDS
                              CLA BLANKS
                                                                                                 4F11663
03464 0 50000 0 01526 CA021
                                                             TO FIND FIRST NON BLANK WORD.
                                                                                                 4F11664
03465 0 34000 1 77777 CA022
                              CAS -1:1
                                                             NOT BLANK.
                                                                                                 4F11665
03466 0 02000 0 03470
                              TRA CA023
                                                             BLANK, SO CONTINUE SCAN.
                                                                                                 4F11666
03467 1 00001 1 03465
                              TXI CA022,1,1
                              LDQ 360NES
                                                             PLACE BINARY ONES IN FIRST WORD
                                                                                                 4F11667
03470 0 56000 0 01531 CA023
                                                             FOLLOWING RIGHTMOST NONBLANK WORD. 4F11668
                              STQ 0.1
03471 -0 60000 1 00000
                                                             PICK UP EXTERNAL FORMULA NUMBER AND4F11669
                              CAL F-1
03472 -0 50000 0 01151
                                                             COMPARE WITH /0
                                                                                 /.
                                                                                                 4F11670
                              CAS 5BLANS
03473 0 34000 0 01477
03474 0 02000 0 03476
                              TRA CA015
                                                             NOT COMPARE.
                                                                                                 4F11671
                                                           * TAKE EXTFORMNO, IF ANY, AND
                                                                                                 4F11672
                              TRA CD000
03475
     0 02000 0 03503
                                                             GO TO CONVERSION SUBROUTINE AND
03476 0 76500 0 00043 CA015
                              LRS 35
                                                                                                 4F11673
                                                           * RETURN HERE WITH RESULT IN ACC.
                              TSX SR6DC1:1
                                                                                                 4F11674
03477 0 07400 1 02566
                                                             STORE RESULT IN ADDRESS OF EIFNO.
                                                                                                4F11675
                              STA EIFNO
03500 0 62100 0 00030
                                                           * GO TO PROGRAM TET TO ENTER EIFNO
                                                                                                 4F11676
                              TSX TETOO,1
03501 0 07400 1 03321
                                                             INTO TABLE TEIFNO (TABLE O).
                                                                                                 4F11677
03502 0 00000 0 00000
                              PZE 0
                                   END OF PROGRAM CA000.
                                                                                                 4F11678
                                                                                           * * *4F11679
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4F11680

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4F11681
                                            CD000/ CALLS=C0190X,C0190,DIAG.
                                            CDOOD SCANS FOR HOLLERITH AND ILLEGAL CHARACTERS.
                                                                      * SET SCAN TO PICK UP 1ST CHARACTER. 4F11683
      03503 0 07400 4 01671 CD000
                                       TSX C0190X,4
                                                                      # IF NOT ENDMARK OR ILLEGAL CHARACTER4F11684
                                       TSX CD900+1
              0 07400 1 03534 CD001
                                                                                                               4F11685
                                                                         SCAN
                                        CAS COMMA
      03505
              0 34000 0 01376
                                                                                                               4F11686
                                                                        FOR
                                        TXI CD002+0
      03506 1 00000 0 03510
                                                                                                               4F11687
                                                                         HOLLERITH
      03507 1 00000 0 03512
                                        TXI CD003.0
D
                                                                        SPECIFICATION
                                                                                                               4F11688
      03510 0 40200 0 01375 CD002
                                       SUB OPEN
                                                                                                               4F11689
                                                                        WHICH
                                        TNZ CD001
      03511 -0 10000 0 03504
                                                                                                               4F11690
                                       TSX CD900+1
                                                                      * CAN BE=
            0 07400 1 03534 CD003
                                                                                                               4F11691
                                                                        • N H
                                        SUB L(10)
      03513
             0 40200 0 01373
                                                                                                               4F11692
                                                                         OR = ( N H.
                                        TPL CD001
      03514
              0 12000 0 03504
                                                                      * IF NOT ENDMARK OR ILLEGAL CHARACTER4F11693
                                       TSX CD900+1
             0 07400 1 03534 CD004
      03515
                                                                         CONTINUE SCAN.
                                        CAS L(9)
      03516
             0 34000 0 01417
                                                                                                               4F11695
                                        TXI CD005+0
      03517 1 00000 0 03522
                                                                                                               4F11696
                                                                        IS
                                       TXI CD004+0
             1 00000 0 03515
      03520
                                                                                                               4F11697
                                                                         Α
                                       TXI CD004+0
              1 00000 0 03515
                                                                                                               4F11698
                                                                         FIXED
              0 34000 0 01423 CD005
                                       CAS L(H)
      03522
                                                                         POINT
                                                                                                               4F11699
                                        TXI CD001+1+0
              1 00000 0 03505
      03523
Đ
                                                                                                               4F11700
                                                                         INTEGER.
                                        TXI CD700.0
      03524
             1 00000 0 03526
                                                                                                               4F11701
                                        TXI CD001+1.0
             1 00000 0 03505
D
      03525
                                                                      * GO GET NEXT NONBLANK CHARACTER,
                                                                                                               4F11702
              0 07400 4 01707 CD700
                                       TSX C0190,4
      03526
                                                     THEN SKIP

* TO NON-ARITHMETIC CLASSIFICATION

* SINCE HOLLERITH HAS BEEN FOUND;
THEN $ IS LEGAL IN FORMAT TEXT.

* OBTAIN NEXT NONBLANK CHARACTER;
AND IF NOT
ENDMARK, THEN SKIP

* EXIT TO ARITH/NON-ARITH SCAN.
CHECK FOR $
WHICH, UNLESS HOLLERITH; IS AN

* ERROR —— GO TO DIAGNOSTIC.
CHECK FOR RECORD MARK
WHICH IS AN
                                                                                                               4F11703
                                                                         AND IF ENDMARK,
                                       CAS ENDMK
              0 34000 0 01374
      03527
                                                                                                               4F11704
                                       TXI CD701+0
             1 00000 0 03532
      03530
                                                                      * TO NON-ARITHMETIC CLASSIFICATION. 4F11705
                                       TXI CC000 • 0
              1 00000 0 03616
      03531
                                                                                                               4F11706
              0 07400 1 03543 CD701 TSX CD600.1
      03532
                                                                                                               4F11707
                                       TXI CD700+0
             1 00000 0 03526
      03533
                                                                                                               4F11708
                                       TSX C0190,4
              0 07400 4 01707 CD900
      03534
                                                                                                               4F11709
                                       CAS ENDMK
              0 34000 0 01374
      03535
                                                                                                               4F11710
                                       TXI CD800+0
      03536
              1 00000 0 03540
                                                                                                               4F11711
             1 00000 0 03562
                                       TXI CB000.0
      03537
                                                                                                               4F11712
                                       CAS SPECOP
              0 34000 0 01427 CD800
                                                                                                               4F11713
              1 00000 0 03546
                                       TXI CD601+0
      03541
                                                                                                               4F11714
                                       TSX DIAG+4
              0 07400 4 03400
      03542
                                                                                                               4F11715
              0 34000 0 01435 CD600
                                       CAS PM
      03543
                                                                                                               4F11716
                                       TRA 1.1
      03544
              0 02000 1 00001
                                                                      # ERROR -- GO TO DIAGNOSTIC.
                                                                                                               4F11717
                                       TSX DIAG,4
              0 07400 4 03400
                                                                        CHECK FOR MINUS ZERO
                                                                                                               4F11718
              0 34000 0 01426 CD601
                                       CAS CHAR3
                                                                                                               4F11719
                                                                        WHICH IS AN
              0 02000 1 00001
                                       TRA 1.1
                                                                   # ERROR -- GO TO DIAGNOSTIC.
                                                                                                               4F11720
                                       TSX DIAG.4
              0 07400 4 03400
      03550
                                                                        CHECK FOR PLUS ZERO
                                                                                                               4F11721
                                       CAS CHAR2
              0 34000 0 01424
      03551
                                                                                                               4F11722
                                                                        WHICH IS AN
                                       TRA 1:1
              0 02000 1 00001
      03552
                                                                      * ERROR -- GO TO DIAGNOSTIC.
                                                                                                               4F11723
                                       TSX DIAG , 4
              0 07400 4 03400
      03553
                                                                        CHECK FOR MINUS SIGN
                                                                                                               4F11724
                                       CAS MINUS
              0 34000 0 01420
      03554
                                                                                                               4F11725
                                                                        WHICH IS AN
                                       TRA 1.1
              0 02000 1 00001
                                                                      # ERROR -- GO TO DIAGNOSTIC.
                                                                                                               4F11726
                                       TSX DIAG,4
             0 07400 4 03400
                                                                                                               4F11727
                                                                        CHECK FOR TEN
                                       SUB TEN
      03557 0 40200 0 01373
                                                                                                               4F11728
                                                                        WHICH IS AN
                                       TNZ 1.1
      03560 -0 10000 1 00001
                                                                      # ERROR -- GO TO DIAGNOSTIC.
                                                                                                               4F11729
                                       TSX DIAG,4
      03561 0 07400 4 03400
                                             END OF PROGRAM CD000.
                                                                                                              *4F11731
                                                                                                               4F11732
                                                                                                               4F11733
                                            CB000/ CALLS=C0190X,C0190,DIAG.
                                            CBOOO CLASSIFIES STATEMENT AS ARITHMETIC OR NON-ARITHMETIC. 4F11734
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4F11735
                                                                   SET XR1 TO COUNT PARENTHESES.
             0 53400 1 01407 CB000
                                    LXA L(1) +1
      03562
                                                                 * RESET CHCTR AND FWA TO BEGIN SCAN. 4F11736
             0 07400 4 01671
                                     TSX C0190X,4
      03563
                                                                 * EXAMINE NEXT NON-BLANK CHARACTER.
                                                                                                      4F11737
            0 07400 4 01707 CB001
                                    TSX C0190+4
      03564
                                                                                                       4F11738
                                                                   IF AN EQUAL SIGN,
                                     CAS AEQUAL
             0 340.00 0 01400
      03565
                                                                                                      4F11739
                                                                   THEN
                                     TXI CB005.0
      03566
            1 00000 0 03570
D
                                                                                                      4F11740
                                                                   GO TEST PAREN-COUNT.
      03567 1 00000 0 03601
                                     TXI CB200+0
                                                                   IF A LEFT PARENTHESIS.
                                                                                                      4F11741
            0 34000 0 01375 CB005
                                    CAS ALPAR
      03570
                                                                                                      4F11742
                                                                   THEN
                                     TXI CB006 • 0
      03571 1 00000 0 03573
D
                                                                   UPDATE PAREN-COUNT BY 1.
                                                                                                      4F11743
                                     TXI CB001,1,1
      03572 1 00001 1 03564
                                                                                                      4F11744
                                                                   IF A RIGHT PARENTHESIS.
      03573 0 34000 0 01377 CB006
                                    CAS ARPAR
                                                                                                      4F11745
                                                                   THEN
                                     TXI CB007:0
            1 00000 0 03576
D
      03574
                                                                                                      4F11746
                                                                   GO TEST PAREN-COUNT.
           1 00000 0 03614
                                     TXI CB500,0
      03575
                                                                                                      4F11747
                                                                   IF NOT ENDMARK, THEN
                                    SUB ENDMK
      03576 0 40200 0 01374 CB007
                                                                                                      4F11748
                                                                   GO EXAMINE NEXT CHARACTER.
                                     TNZ CB001
      03577 -0 10000 0 03564
                                                                                                      4F11749
                                                                 * OTHERWISE, GO TO DIC LOOK-UP.
                                     TXI CC000+0
      03600 1 00000 0 03616
D
                                                                 * IF EQUAL WAS NOT WITHIN PARENS,
                                                                                                      4F11750
      03601 2 00001 1 03616 CB200
                                    TIX CC000,1,1
                                                                                                      4F11751
                                                                 * THEN EXAMINE NEXT CHARACTER.
      03602 0 07400 4 01707 CB201
                                    TSX C0190,4
                                                                                                      4F11752
                                                                   IF LEFT PARENTHESIS,
                                     CAS ALPAR
      03603 0 34000 0 01375
                                                                                                      4F11753
                                                                   THEN
                                     TXI CB205,0
      03604 1 00000 0 03606
                                                                 * THIS IS AN ARITHMETIC FORMULA.
                                                                                                      4F11754
                                     TXI ARITH+0
            1 00000 0 02404
      03605
                                                                                                      4F11755
                                                                   IF A COMMA;
      03606 0 34000 0 01376 CB205
                                    CAS ACOMMA
                                                                                                      4F11756
                                                                   THEN
      03607 1 00000 0 03611
                                     TXI CB206,0
D
                                                                 * GO TO NON-ARITHMETIC DIC LOOK-UP.
                                                                                                      4F11757
                                     TXI CC000+0
      03610 1 00000 0 03616
D
                                                                                                      4F11758
                                                                   IF NOT ENDMARK, THEN
      03611 0 40200 0 01374 CB206
                                    SUB ENDMK
                                                                                                      4F11759
                                                                   GO EXAMINE NEXT CHARACTER.
                                     TNZ CB201
      03612 -0 10000 0 03602
                                                                                                      4F11760
                                                                 * THIS IS AN ARITHMETIC FORMULA.
                                     TXI ARITH+0
      03613 1 00000 0 02404
D
                                                                   IF PAREN-COUNT DOES NOT BALANCE,
                                                                                                      4F11761
      03614 2 00001 1 03564 CB500
                                    TIX CB001,1,1
                                                                                                      4F11762
                                                                 * ERROR-GO TO DIAGNOSTIC ROUTINE.
                                     TSX DIAG,4
      03615 0 07400 4 03400
                                                                                                      4F11763
                                         END OF PROGRAM CBOOO.
                                                                                                     *4F11764
                                         4F11765
                                                                                                      4F11766
                                         CC000/ CALLS=CC500,C0190X,DIAG,C0190,TET00.
                                         CC000 CLASSIFIES STATEMENT AS TO WHICH NON-ARITHMETIC.
                                                                                                      4F11767
                                                                   SET DICTIONARY WORD TAG, AND
                                                                                                      4F11768
                                    STZ 2G
      03616 0 60000 0 01113 CC000
                                                                   CHARACTER COUNT AND ENTRY COUNT.
                                                                                                      4F11769
                                     LXA L(0)+3
      03617 0 53400 3 01406
                                                                 * RESET CHCTR AND FWA TO BEGIN SCAN. 4F11770
      03620 0 07400 4 01671 CC001
                                    TSX C0190X•4
                                                                 * EXAMINE NEXT DICTIONARY CHARACTER. 4F11771
                                     TSX CC500,4
             0 07400 4 05743
      03621
                                                                   TEST FOR CONSECUTIVE ENDMARKS.
                                                                                                      4F11772
             0 34000 0 01374
                                     CAS ENDMK
      03622
                                                                 * MACHINE ERROR, GO TO DIAGNOSTIC.
                                                                                                      4F11773
                                     TRA ERR77P
      03623 0 02000 0 03272
                                                                 * ERROR * NOT FOUND IN DICTIONARY.
                                                                                                      4F11774
                                     TSX DIAG+4
      03624 0 07400 4 03400
                                                                                                      4F11775
                                                                   GO BEGIN COMPARISON.
                                     TXI CC004,0
            1 00000 0 03632
      03625
D
                                                                 * EXAMINE NEXT DICTIONARY CHARACTER. 4F11776
             0 07400 4 05743 CC002
                                    TSX CC500,4
      03626
                                                                                                      4F11777
                                                                   TEST FOR END OF DIC ENTRY.
      03627 0 34000 0 01374
                                     CAS ENDMK
                                                                 * MACHINE ERROR, GO TO DIAGNOSTIC.
                                                                                                      4F11778
                                     TXI ERR77P .O
      03630 1 00000 0 03272
                                                                   IF END OF ENTRY. LOOK NO FURTHER.
                                                                                                      4F11779
                                     TXI CC007.0
      03631 1 00000 0 03644
Ð
                                                                   OTHERWISE, SAVE CHARACTER
                                                                                                      4F11780
                                    STO 1C
      03632 0 60100 0 01105 CC004
                                                                   AND REMAINDER OF DICTIONARY WORD.
                                                                                                      4F11781
                                     STQ 1C+1
      03633 -0 60000 0 01106
                                                                 * GO GET NEXT FORMULA CHARACTER,
                                                                                                      4F11782
                                     TSX C0190,4
      03634 0 07400 4 01707
                                                                   AND RESTORE DICTIONARY WORD.
                                                                                                      4F11783
                                    LDQ 1C+1
      03635 0 56000 0 01106
                                                                   IF CHARACTERS ARE EQUAL.
                                                                                                      4F11784
      03636 0 40200 0 01105
                                     SUB 1C
                                                                   THEN GO COMPARE NEXT CHARACTERS.
                                                                                                      4F11785
                                     TZE CC002
      03637 0 10000 0 03626
                                                                * OTHERWISE, EXAMINE NEXT DIC CHAR.
                                                                                                      4F11786
      03640 0 07400 4 05743 CC005
                                    TSX CC500,4
                                                                                                      4F11787
                                                                   CONTINUE UNTIL AN ENDMARK IS
                                     SUB ENDMK
      03641 0 40200 0 01374
                                                                   FOUND, THEN
                                                                                                      4F11788
                                     TNZ CC005
      03642 -0 10000 0 03640
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4F11789
                                                              COUNT ENTRY, AND BEGIN AGAIN.
      1 77777 1 03620
                               TXI CC001,1,-1
03643
                                                              IF THE CURRENT STATEMENT IS
                                                                                                   4F11790
       0 50000 1 06246 CC007
                               CLA T+1
                                                                                                   4F11791
                                                              OF THE NON-EXECUTABLE TYPE.
                               TPL Tol
      0 12000 1 06246
03645
                                                                                                   4F11792
                                                              THEN
                               SXD 1C+2.1
03646 -0 63400 1 01107
                                                            * GO ENTER EIFNO IN THE
                                                                                                   4F11793
      0 07400 1 03321
                               TSX TETOO.1
                                                                                                   4F11794
                                                              NONEXC TABLE.
                               PZE 14
      0 00000 0 00016
03650
                                                                                                   4F11795
                                                              AND THEN
                               LXD 1C+2+1
03651 -0 53400 1 01107
                                                            * TAKE INDICATED TRANSFER.
                                                                                                   4F11796
03652 0 02000 1 06246 CC008
                               TRA T+1
                                                                                                   4F11797
                                    END OF PROGRAM CCOOO.
                                                                                                   4F11799
                                   STATEA/2-PROCESS CONTROL AND SPECIFICATION STATEMENTS=
                                                                                                  4F11800
                                                                                                   4F11801
                                                                                                 *4F11802
                                                                                                   4F11803
                                   CO100/ CALLS=GETIFN,CO190,TEST..,CO180,CO160,CO150,TET00.
                                                                                                   4F11804
                                   CO100 PROCESSES DO STATEMENTS.
                                                                                                   4F11805
                                                            * GET INTERNAL FORMULA NUMBER IN 1C. 4F11806
                               TSX GETIFN.4
       0 07400 4 02366 C0100
03653
                                                            * OBTAIN 1ST NON-BLANK CHARACTER
                                                                                                   4F11807
                               TSX C0190,4
03654
       0 07400 4 01707
                                                                                                   4F11808
                                                            * WHICH SHOULD BE NUMERIC.
       0 07400 4 03315
                               TSX TESTIO,4
03655
                                                            * OBTAIN IN 1G THE BIN EQUIV OF BETA-4F11809
                               TSX C0180,2
       0 07400 2 01655
03656
                                                              SAVE THE 1ST CHAR OF SUBSCRIPT.
                                                                                                   4F11810
       0 60100 0 01113
                               STO 2G
03657
                                                              TAKE CONVERTED RESULT FOR BETA
                                                                                                   4F11811
                               CLA 1G
03660
       0 50000 0 01112
                                                                                                   4F11812
                                                              AND STORE IN ADDR OF 1C.
       0 62100 0 01105
                               STA 1C
03661
                                                              1C IS NOW COMPLETE EXCEPT FOR TAG. 4F11813
                               CLA 2G
       0 50000 0 01113
03662
                                                            * OBTAIN IN 1G THE SUBSCRIPT.
                                                                                                   4F11814
                               TSX C0160,2
       0 07400 2 01624
03663
                                                                                                  4F11815
                                                              STORE. SUBSCRIPT
       0 50000 0 01112
                               CLA 1G
03664
                                                                                                  4F11816
                                                              IN 1C+1.
                               STO 1C+1
03665
       0 60100 0 01106
                                                            * OBTAIN IN 1G THE PROPER N1.
                                                                                                  4F11817
                               TSX C0150,2
       0 07400 2 01604
03666
                                                                                                  4F11818
                                                              STORE N1
                               CLA 1G
03667
       0 50000 0 01112
                                                                                                  4F11819
                                                              IN 1C+2.
      0 60100 0 01107
                               STO 1C+2
03670
                                                              OBTAIN I IN LOGICAL ACC AND
                                                                                                  4F11820
                               CAL I
03671 -0 50000 0 01353
                                                              STORE IN POS 18 OF 1C
                                                                                                  4F11821
                               ARS 18
       0 77100 0 00022
03672
                                                              O IF NUMERIC, OR 1 IF NON-NUMERIC. 4F11822
                               ORS 1C
03673 -0 60200 0 01105
                                                                                                  4F11823
                                                            * OBTAIN IN 1G THE PROPER N2.
      0 07400 2 01604
                               TSX C0150,2
                                                                                                  4F11824
                                                            * TEST THE AC FOR COMMA OR ENDMARK.
                               TSX TESTAO,4
03675
      0 07400 4 03247
                                                                                                  4F11825
                                                              IF ENDMARK, THEN
03676 -0 10000 0 03701
                               TNZ C0113
                                                                                                  4F11826
                                                              CREATE ONE IN MQ FOR N3
03677 -0 77300 0 00037
                               RQL 31
                                                                                                  4F11827
                                                              AND PLACE IN RESIDU.
                               STQ RESIDU
03700 -0 60000 0 01365
                                                                                                  4F11828
                                                              STORE N2
       0 50000 0 01112 C0113
                               CLA 1G
03701
                                                                                                  4F11829
                                                              IN 1C+3.
                               STO 1C+3
03702
      0 60100 0 01110
                                                                                                  4F11830
                                                              OBTAIN I IN LOG ACC AND
                               CAL I
03703 -0 50000 0 01353
                                                              STORE IN POS 19 OF 1C
                                                                                                  4F11831
       0 77100 0 00023
                               ARS 19
03704
                                                              O IF NUMERIC, OR 1 IF NON-NUMERIC. 4F11832
                               ORS 1C
03705 -0 60200 0 01105
                                                                                                  4F11833
                                                            * OBTAIN IN 1G THE PROPER N3.
      0 07400 2 01604
                               TSX C0150,2
03706
                                                            * THE AC SHOULD CONTAIN AN ENDMARK.
                                                                                                  4F11834
                               TSX TESTDO,4
03707
       0 07400 4 03271
                                                                                                  4F11835
                                                              STORE N3
                               CLA 1G
       0 50000 0 01112
03710
                                                                                                  4F11836
                                                              IN 1C+4.
                               STO 1C+4
03711
       0 60100 0 01111
                                                              OBTAIN I IN LOG ACC AND
                                                                                                  4F11837
                               CAL I
03712 -0 50000 0 01353
                                                              STORE IN POS 20 OF 1C
                               ARS 20
03713 0 77100 0 00024
                                                              O IF NUMERIC. OR 1 IF NON-NUMERIC. 4F11839
                               ORS 1C
03714 -0 60200 0 01105
                                                                                                  4F11840
                                                            * GO TO TET PROGRAM TO ENTER
                               TSX TETOO:1
      0 07400 1 03321
03715
                                                              1C+1C+1+++1C+4 IN TDO TABLE 1+-
                                                                                                  4F11841
       0 00000 0 00001
                               PZE 1
03716
                                                                                                  4F11842
                                                            * EXIT TO PROCESS NEXT STATEMENT.
03717 1 00000 0 03440
                               TXI CA010,0
```

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		END OF PROGRAM CO100.	4F11843 * * * * * * * * * * * * * * * * * * *
			4F11845
		COROR/ CALLS=GETIEN.DI	AG, TEST, C0190, C0180, TET00, C0160, 4F11846
	·	CO200 PROCESSES GO TO	STATEMENTS. 4F11848
		TCY GETIENAL	* GET INTERNAL FORMULA NUMBER IN 1C 4F11849
	03720 0 07400 4 02366 C0200	13A GETTENTA	AND IN 1C+2. 4F11850
	03721 0 60100 0 01107	310 1CT2	# ORTAIN IN ACC NEXT NB CHARACTER 4F11851
	03722 0 07400 4 01707	15% (0190)4	AND COMPARE IT WITH 9. 4F11852
	03723 0 34000 0 01417	CAS L(9)	TE NON-NUMERICA GO COMPARE WITH (4 4F11853
D	03724 1 00000 0 03733	131 (0205)0	TE NUMERICA THEN 4F11854
	03725 0 76100 0 00000	NUP	* ORTAIN IN 16 THE BINARY EQUY BETA. 4F11855
	03726 0 07400 2 01655	15X CU16U12	* THE AC SHOULD CONTAIN AN ENDMARKA 4F11856
	03727 0 07400 4 03271	15% 16510094	STORE BETA IN 1C+1 TO CONSTRUCT 4F11857
	03730 0 50000 0 01112	CLA IG	THE 2ND WORD OF TIEGO TABLE ENTRY. 4F11858
	03731 0 60100 0 01106	510 1CT1	GO TO ENTER 1C+1C+1 INTO TIFGO. 4F11859
D	03732 1 00000 0 04030	CAC ALDAD	TEST CHARACTER FOR ALPHABETIC. 4F11860
	03733 0 34000 0 01375 (0205	TY1 C0210-0	IF NOT ALPHABETIC. THE
D	03734 1 00000 0 03736	TYL C021240	THIS IS TYPE= GO TO () > 1. 4F11862
D	03735 1 00000 0 03746	TSY C0160-2	* TYPE= GO TO N.().50 OBTAIN IN 1G N 4F11863
	03736 0 07400 2 01624 C0210	TCY TECTODAL	* WHICH SHOULD BE FOLLOWED BY COMMA. 4F11864
	03737 0 07400 4 03305	CIA 16	SAVE THE SYMBOL N IN 1C+3 4F11865
	03740 0 50000 0 01112	CEM 10 CEM 10+2	FOR COMPILED INSTRUCTION. 4F11866
	03741 0 60100 0 01110	TCY C0100.4	* OBTAIN IN ACC NEXT NB CHARACTER + 4F11867
	03742 0 07400 4 01707	TSY TESTED 4	* WHICH SHOULD BE A LPAREN. 4F11868
	03743 0 07400 4 03273	CIA 1 (1)	PREPARE TO SET ADDRESS PART OF 1C 4F11869
	03744 0 50000 0 01407	TPA C0213	TO 1 TO INDICATE CLASS OF TRANSFER 4F11870
	03745 0 02000 0 03747	CIA 1 (2)	PREPARE TO SET ADDR OF 1C TO 2. 4F11871
	03746 0 50000 0 01410 C0212	STA 1C	STORE 1 OR 2 IN ADDR OF 1C. 4F11872
	03747 0 62100 0 01103 00213	LYD CTRAD+2	OBTAIN 250-(NO. TRAD ENTRIES), AND 4F11873
	03750 -0 55400 2 04052	PYD +2	PLACE IN THE DECREMENT OF THE AC 4F11874
	03/51 -0 /5400 2 00000	STO 1C+1	AND STORE IN 1C+1. 4F11875
	03752 0 60100 0 01100	TSX C0190.4	* OBTAIN IN ACC NEXT NB CHAR. 4F11876
	03753 0 07400 4 01707 C0213	TSX C0180+2	* OBTAIN IN 1G THE BIN EQU OF BETA. 4F11877
	03754 0 07400 2 01000	STO 2G	SAVE CHAR IN ACC. 4F11878
	03754 0 07400 1 03321	TSX TETOO.1	* GO TO ENTER 1G 4F11879
	03755 0 01400 1 03321	P7F 3	INTO TRAD TABLE (TABLE 3). 4F11880
	03757 0 00000 0 00003	LXD CTRAD+2	REDUCE COUNTER 4F11881
	03760 -0 33400 2 04032	TIX C0216.2.1	CTRAD 4F11882
	03761 2 00001 2 03102 03762 -0 63400 2 04032 C0216	SXD CTRAD.2	BY 1. 4F11883
	03162 -0 63400 2 04032 00220	CLA 2G	RESTORE CHAR TO ACC. 4F11884
	03/63 0 50000 0 01115	TSX TESTBO • 4	* TEST FOR COMMA OR RPAREN. 4F11885
•	03764 0 07400 4 03233	TNZ C0215	IF RIGHT PARENTHESIS, THEN 4F11886
	03/65 -0 10000 0 03/33	CLA CTRAD	OBTAIN IN ADDR OF ACC 250-NO. OF 4F11887
	03766 0 30000 0 04032	ARS 18	ENTRIES IN TRAD TABLE, AND STORE 4F11888
	03/6/ 0 //100 0 00022	STA 1C+1	IN ADDR OF 1C+1. 4F11889
	0311 0 80000 0 01102	CLA 1C	### ### ### ### ### ### ### ### ### ##
	05111 0.50000 0 01105	LBT	AND TEST LOW ORDER BIT. 4F11891
	02115 0 18000 0 00001	TRA C0220	THIS IS A TYPE GO TO (). I FORMULA. 4F11892
	03774 0 07400 4 01707	TSX C0190,4	* OBTAIN NEXT NB CHAR AND 4F11893
	02775 0 07600 4 02271	TSX TESTDO.4	* TEST FOR ENDMK. 4F11894
	02774 0 07400 4 07731	TSX C1T00,4	* GO MAKE THE FOLLOWING CIT ENTRY= 4F11895
	02777 0 00000 0 01107	PZE 1C+2	WORD 1DECR= INTFORMNO (LOCATION) 4F11896
	TOTTO O COCCO O CITO		

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WORD 2-TRAOOO (OP AND DECR)
                                                                                                    4F11897
       0 00000 0 01601
                               PZE L(TRA)
04000
                                                               WORD 3--VARIABLE N (ADDRESS)
                                                                                                    4F11898
                               PZE 1C+3
       0 00000 0 01110
04001
                                                               WORD 4--000000 (REL ADDR AND TAG). 4F11899
                               PZE L(0)
04002
       0 00000 0 01406
                                                               GO TO ENTER 1C+1C+1 INTO TIFGO.
                                                                                                    4F11900
                               TRA C0202
04003
       0 02000 0 04030
                                                            * EXAMINE NEXT NB CHARACTER,
                                                                                                    4F11901
       0 07400 4 01707 C0220
                               TSX C0190:4
04004
                                                                                                    4F11902
                                                            * WHICH SHOULD BE A COMMA.
       0 07400 4 03305
                               TSX TESTGO 4
04005
                                                             # OBTAIN IN ACC NEXT NB CHAR, AND
                                                                                                    4F11903
       0 07400 4 01707
                               TSX C0190,4
04006
                                                            * OBTAIN IN 1G THE FXD-PT. VARIABLE, 4F11904
       0 07400 2 01624
                               TSX C0160+2
04007
                                                            * WHICH SHOULD BE FOLLOWED BY ENDMK. 4F11905
                               TSX TESTDO.4
04010
       0 07400 4 03271
                                                               PREPARE PROPER FORM OF SUBSCRIPT
                                                                                                    4F11906
04011
       0 50000 0 01407
                               CLA L(1)
                                                               COMBINATION AS
                                                                                                    4F11907
                               STO E+3
       0 60100 0 01131
04012
                                                               INPUT TO SUBSCRIPT ANALYSIS=
                                                                                                    4F11908
       0 60100 0 01100
                               STO DIMCTR
04013
                                                               E+3 = 1ST COEFFICIENT.
                                                                                                    4F11909
                               CLA 1G
       0 50000 0 01112
04014
                                                               E+4 = 1ST SUBSCRIPT VARIABLE,
                                                                                                    4F11910
       0 60100 0 01132
                               STO E+4
04015
                                                               E+9 = ADDEND OF SUBSCRIPT,
                                                                                                    4F11911
                               STZ E+9
       0 60000 0 01137
04016
                                                            * DIMCTR = DIMENSION OF VARIABLE.
                                                                                                    4F11912
                               TSX CSA000,4
       0 07400 4 03027
04017
                                                                                                    4F11913
                                                               OUTPUT FROM CSA IS FOUND IN
                               CLA E
       0 50000 0 01126
04020
                                                                                                   4F11914
                                                               E * I--TAUTAG (GENERAL TAG) 1-11.
                               ARS 24
       0 77100 0 00030
04021
                                                               ADJUST AND SAVE FOR COMP. INSTR.
                                                                                                    4F11915
                               STO 2G
       0 60100 0 01113
04022
                                                            * GO MAKE THE FOLLOWING CIT ENTRY=
                                                                                                    4F11916
                               TSX CITOO+4
04023
        07400 4 01731
                                                                                                    4F11917
                                                              WORD 1--DECR-INTFORMNO(LOCATION)
                               PZE 1C+2
       0 00000 0 01107
04024
                                                              WORD 2--TRAOOD(OP AND DECR)
                                                                                                    4F11918
                               PZE L(TRA)
04025
       0 00000 0 01601
                                                                                                    4F11919
                                                              WORD 3--000000(ADDRESS)
       0 00000 0 01406
                               PZE L(0)
04026
                                                              WORD 4--ADDR = TAUTAG FOR I
                                                                                                    4F11920
                               PZE 2G
       0 00000 0 01113
04027
                                                                                                    4F11921
                                   CO200= ENTRY POINT USED BY CO400+C1000+
                                                            * GO TO TET TO ENTER 1C AND 1C+1
                                                                                                    4F11922
                               TSX TET00:1
       0 07400 1 03321 C0202
04030
                                                               INTO TIFGO TABLE (TABLE 2).
                                                                                                    4F11923
       0 00000 0 00002
                               PZE 2
04031
                                                                                                    4F11924
                        CTRAD TXI CA010.0.250
                                                            * EXIT TO PROCESS NEXT STATEMENT.
      1 00372 0 03440
04032
                                                                                                    4F11925
                                    END OF PROGRAM CO200.
                                                                                                  *4F11926
                                                                                                   4F11927
                                                                                                   4F11928
                                   C0300/ CALLS=C0190X,C0190,C0390,TEST...DIAG,C0180,TET00,
                                                                                                   4F11929
                                   STATEB.
                                                                                                   4F11930
                                   CO300 PROCESSES IF STATEMENTS.
                                                              PLACE THE CURRENT INTERNAL FORMULA
                                                                                                   4F11931
                               LXD EIFNO.4
04033 -0 53400 4 00030 C0300
                                                              NUMBER IN THE DECREMENT OF 1C
                                                                                                   4F11932
04034 -0 75400 4 00000
                               PXD
                                   94
                                                                                                   4F11933
                                                              WITH SIGN SET TO MINUS
                               SSM
04035 -0 76000 0 00003
                                                              FOR FUTURE TIFGO ENTRY.
                                                                                                   4F11934
                               STO 1C
      0 60100 0 01105
04036
                                                                                                   4F11935
                                                            * SET CHCTR AND FWA TO BEGIN SCAN.
       0 07400 4 01671
                               TSX C0190X,4
04037
                                                                                                   4F11936
                                                            * OBTAIN IN AC THE 1ST NB CHAR (I).
                               TSX C0190,4
       0 07400 4 01707
04040
                                                                                                   4F11937
                                                              REPLACE THE CHARACTER I
                               LDQ L(X)
       0 56000 0 01433
04041
                                                                                                   4F11938
                                                            * WITH THE CHARACTER X.
                               TSX C0390,4
       0 07400 4 01675
04042
                                                                                                   4F11939
                                                              REPLACE THE CHARACTER F
                               LDQ L(10)
        56000 0 01373
04043
                                                                                                   4F11940
                                                            * WITH THE CHARACTER 001010.
                               TSX C0390+4
       0 07400 4 01675
04044
                                                            * IF NOT LPAREN -- THEN ERROR.
                                                                                                   4F11941
                               TSX TESTEO,4
04045
        07400 4 03275
                                                              REPLACE THE CHARACTER LPAREN
                                                                                                   4F11942
                               LDQ AEQUAL
       0 56000 0 01400
04046
                                                                                                   4F11943
                                                            * WITH THE CHARACTER EQUAL.
                               TSX C0390,4
       0 07400 4 01675
04047
                                                              SET XR2 FOR COUNTING PARENTHESES.
                                                                                                   4F11944
                               LXA L(1),2
       0 53400 2 01407
04050
                                                                                                   4F11945
                               TRA *+2
         02000 0 04053
04051
                                                                                                   4F11946
                                                            * MAKE SURE THAT NEXT NB CHARACTER
                               TSX C0190,4
       0 07400 4 01707
                       C0302
04052
                                                                                                   4F11947
                                                              IS NOT AN ENDMARK.
                               CAS ENDMK
       0 34000 0 01374
04053
                                                                                                   4F11948
                                                            * MACHINE ERROR, GO TO DIAGNOSTIC.
                               TRA ERR77P
       0 02000 0 03272
04054
                                                            * PROGRAM ERROR, GO TO DIAGNOSTIC.
                                                                                                   4F11949
                               TSX DIAG+4
      0 07400 4 03400
04055
                                                                                                   4F11950
                                                              IF IT IS A LPAREN,
                               CAS ALPAR
04056 - 0 34000 0 01375
```

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4F11951
                                                                   THEN ADD 1 TO PAREN COUNT, AND
                                    TXI C0303.0
             1 00000 0 04061
D
      04057
                                                                   GO EXAMINE NEXT CHARACTER.
                                                                                                      4F11952
                                    TXI C0302,2,1
      04060 1 00001 2 04052
                                                                   IF IT IS A RPAREN.
                                                                                                      4F11953
      04061 0 40200 0 01377 C0303
                                    SUB ARPAR
                                                                                                      4F11954
                                                                   THEN TEST PAREN COUNT, AND IF IT
                                    TNZ C0302
      04062 -0 10000 0 04052
                                                                                                      4F11955
                                                                  CAN NOT BE REDUCED MATE IS FOUND.
      04063 2 00001 2 04052
                                    TIX C0302,2,1
                                                                   SO REPLACE THE CHARACTER RPAREN
                                                                                                      4F11956
                                    LDQ ENDMK
      04064 0 56000 0 01374
                                                                                                      4F11957
                                                                * WITH THE CHARACTER ENDMK.
      04065 0 07400 4 01675
                                    TSX C0390+4
                                                                                                      4F11958
                                                                * BINARY EQUIVALENT OF BETA 1.
                                    TSX C0180,2
      04066 0 07400 2 01655
                                                                * THIS SHOULD BE FOLLOWED BY A COMMA.4F11959
                                    TSX TESTGO 4
      04067 0 07400 4 03305
                                                                                                      4F11960
                                                                  MOVE BETA1
                                    CLA 1G
      04070 0 50000 0 01112
                                                                                                      4F11961
                                                                  TO ADDRESS OF 1C.
                                    STA 1C
      04071 0 62100 0 01105
                                                            * AND PROCEED TO FORM 4F11962

* THE BINARY EQUIVALENT OF BETA 2. 4F11963

* THIS SHOULD BE FOLLOWED BY A COMMA.4F11964
                                    TSX C0190,4
      04072 0 07400 4 01707
                                    TSX C0180,2
      04073 0 07400 2 01655
                                    TSX TESTGO,4
      04074 0 07400 4 03305
                                                                                                      4F11965
                                                                  MOVE BETA2
                                    CLA 1G
      04075 0 50000 0 01112
                                                                                                      4F11966
                                                                  TO DECR PART
                                    ALS 18
      04076 0 76700 0 00022
                                                                                                      4F11967
                                                                  OF 1C+1.
                                    STO 1C+1
      04077 0 60100 0 01106
                                                                                                      4F11968
                                                                * AND PROCEED TO FORM
                                    TSX C0190,4
      04100 0 07400 4 01707
                                                                * THE BINARY EQUIVALENT OF BETA 3.
                                                                                                      4F11969
                                    TSX C0180,2
      04101 0 07400 2 01655
                                                                * THIS SHOULD BE FOLLOWED BY ENDMARK. 4F11970
      04102 0 07400 4 03271
                                    TSX TESTDO • 4
                                                                  MOVE BETA3
                                                                                                      4F11971
                                    CLA 1G
      04103 0 50000 0 01112
                                                                                                      4F11972
                                                                  TO ADDRESS OF 1C+1.
                                    STA 1C+1
      04104 0 62100 0 01106
                                                                * EXIT TO ARITH FOR FINAL PROCESSING. 4F11973
                                    TXI ARITH+0
      04105 1 00000 0 02404
                                         END OF PROGRAM CO300.
                                        4F11976
                                        C0400/ CALLS=C0190+C0180+TEST...+CIT00+C0200.
                                                                                                      4F11977
                                        CO400 PROCESSES IF (SENSE SWITCH STATEMENTS.
                                                                                                      4F11978
                                                                                                      4F11979
                                                                  FOR SENSE SWITCH
                                    CLA L(112)
      04106 0 50000 0 01441 C0400
                                                                  SET 1H TO 112, AND PREPARE TO
                                                                                                      4F11980
                                    STO 1H
             0 60100 0 01115
      04107
                                                                                                      4F11981
                                                                  SET 2H TO PSE.
                                    CLA L(PSE)
      04110 0 50000 0 01565
                                                                                                      4F11982
                                        CO401= ENTRY POINT USED BY CO500.
                                                                   SET 2H FOR SENSE SWITCH OR LIGHT.
                                                                                                     4F11983
                                    STO 2H
      04111 0 60100 0 01116 C0401
                                                                                                      4F11984
                                                                * PROCEED TO FORM THE BINARY
                                    TSX C0190,4
      04112 0 07400 4 01707
                                                                                                      4F11985
                                                                * EQUIVALENT OF SW OR SL NUMBER.
      04113 0 07400 2 01655
                                    TSX C0180,2
                                                                * THIS SHOULD BE FOLLOWED BY RPAREN. 4F11986
                                    TSX TESTFO.4
      04114 0 07400 4 03301
                                                                                                      4F11987
                                                                  STORE 3
                                    CLA L(3)
      04115 0 50000 0 01411
                                                                                                      4F11988
                                                                  IN ADDRESS OF 1C.
                                    STO 1C
             0 60100 0 01105
      04116
                                                                  ADD THE PROPER INCREMENT TO THE
                                                                                                      4F11989
      04117 0 50000 0 01112
                                    CLA 1G
                                                                  NUMBER OF SENSE SWITCH OR LIGHT.
                                                                                                      4F11990
                                    ADD 1H
      04120 0 40000 0 01115
                                                                  AND ADJUST TO THE DECREMENT.
                                                                                                      4F11991
                                    ALS 18
      04121 0 76700 0 00022
                                                                                                      4F11992
                                        CO402= ENTRY POINT USED BY CO600.
                                                                  SET 1C+3 FOR CIT ENTRY.
                                                                                                      4F11993
                                    STO 1C+3
      04122 0 60100 0 01110 C0402
                                                                  PLACE THE CURRENT INTERNAL FORMULA 4F11994
                                    LXD EIFNO,4
      04123 -0 53400 4 00030
                                                                  NUMBER IN THE DECREMENT OF
                                                                                                      4F11995
                                    PXD 94
      04124 -0 75400 4 00000
                                                                                                      4F11996
                                                                  1C FOR FUTURE TIFGO ENTRY, AND
                                    STD 1C
      04125 0 62200 0 01105
                                                                                                      4F11997
                                                                  1C+2 FOR FUTURE CIT ENTRY.
                                    STO 1C+2
      04126 0 60100 0 01107
                                                                                                     4F11998
                                                                * PROCEED TO FORM THE BINARY
      04127 0 07400 4 01707
                                    TSX C0190,4
                                                                * EQUIVALENT OF BETA 1,
                                                                                                     4F11999
      04130 0 07400 2 01655
                                    TSX C0180.2
                                                                * WHICH SHOULD BE FOLLOWED BY COMMA. 4F12000
      04131 0 07400 4 03305
                                    TSX TESTGO 4
                                                                  BRING UP.
                                                                                                     4F12001
                                    CLA 1G
      04132 0 50000 0 01112
                                                                                                     4F12002
                                                                  ADJUST AND
                                    ALS 18
             0 76700 0 00022
      04133
                                                                  STORE BETA1 IN DECR OF 1C+1.
                                                                                                     4F12003
      04134 0 60100 0 01106
                                    STO 1C+1
                                                                * PROCEED TO FORM THE BINARY
                                                                                                      4F12004
      04135 0 07400 4 01707
                                    TSX C0190,4
```

	04136				01655					EQUIVALENT OF BETA 2.	4F12005
	04137				03271		TSX	TESTDO • 4	*	WHICH SHOULD BE FOLLOWED BY END	1K. 4F12006
	04140	_			01112		CLA	16		BRING UP AND	4F12007
	04141				01106		STA	1C+1		STORE BETAZ IN ADDR OF IC+1.	4F12008
					01731		TSX	C1T00+4	*	BRING UP AND STORE BETA2 IN ADDR OF 1C+1. GO MAKE THE FOLLOWING CIT ENTRY: WORD1DECR = INTFORMNO (LOCATIO WORD2PSE, MSE, DCT, TOV, OR TQO. WORD3000000 (ADDRESS) WORD4DECR=SS OR SL NO., OR OOD	4F12009
					01107		PZE	1C+2		WORD1DECR = INTFORMNO (LOCATIO	N) 4F12010
	04144				01116		PZE	2H		WORDZPSE; MSE; DC1; TOV; OR TQU.	4F12011
					01406		PZE	L(0)		WORD3000000 (ADDRESS)	4F12012
	04146				01110		PZE	1C+3		WORD4DECR=SS OR SL NO., OR OOD	0004F12013
D	04147	1	00000	0	04030		TXI	CU2U2 • U	*	MAKE TIFGO ENTRY, AND RETURN TO	CM#4172014
								END OF PROGRAM CO400.	_		4F12015
								* * * * * * * * * * * *	*	* * * * * * * * * * * * * * * * *	
						-					4F12017
								C0500/ USES=C0400.	_	LICHT STATEMENTS	4F12018
		_		_	·		 .	CO500 PROCESSES IF (SENS			4F12019
	04150					C0500		L(96)		STORE 96 IN	4F12020
	04151				01115		STO			1H AND	4F12021
	04152	_		_	01563			L (MSE)		OBTAIN (MSEOOD) IN ACC.	4F12022
	04153	0	02000	0	04111		TRA		*	AND CONTINUE BY USING PROGRAM CO	
								END OF PROGRAM COSOO.	_		4F12024
								* * * * * * * * * * *	*	* * * * * * * * * * * * * * * *	* *4F12025
								504504 11555-50400			4F12026 4F12027
								C0600/ USES=C0400.	_	CHECK STATEMENTS.	4F12027
		_						CO600 PROCESSES IF DIVID			4F12029
	04154			-	01545	C0600		L(DCT)		STORE (DCT000) In 2h	4F12029
	04155				01116		STO			AND PICK UP 4 TO SET 1C.	4F12031
	04156	U	50000	U	01412		CLA	L(4) CO601= ENTRY POINT USED			4F12032
	44157	^			01105	C0601	sto			SET 1C FOR FUTURE TIFGO ENTRY.	4F12033
					01105	C0801	PXD			CLEAR THE AC.	4F12034
					00000					AND CONTINUE BY USING PROGRAM CO	
	04161	U.	02000	U	04122		INA	END OF PROGRAM CO600.	-	AND CONTINUE DI COING I ROCKA. CO	4F12036
									*	* * * * * * * * * * * * * * * *	
	•										4F12038
								C0700/ USES C0600.			4F12039
		-	-					CO700 PROCESSES IF AC OVE	FD	FLOW STATEMENTS.	4F12040
	04340		50000	^	01577		C1 A	L(TOV)		PICKUP TOVOOO TO SET 2H.	4F12041
	04162	U	20000	U	01577	C0700	CLA	CO701= ENTRY POINT USED I		-	4F12042
	06363	0	40100	^	01116	C0701	STO			SET 2H FOR FUTURE CIT ENTRY.	4F12043
	04163 04164	-	50000			C0701	-	L(5)		PICKUP 5 TO SET 1C, AND	4F12044
	04165				04157					CONTINUE BY USING PROGRAM COG.	4F12045
	07103	•	02000	٠	04171		,,,,	END OF PROGRAM CO700.			4F12046
								* * * * * * * * * * * * *	*	* * * * * * * * * * * * * * * * *	* *4F12047
											4F12048
								C0800/ USES=C0700.			4F12049
								COBOO PROCESSES IF MQ OVE	ER	FLOW STATEMENTS.	4F12050
	04166	0	50000	0	01600	C0800	CLA	L(TQ0)		PICKUP TOOOOO TO SET 2H;	4F12051
	04167	-	02000	-						AND CONTINUE BY USING PROGRAM CO	
	44101	•	72000	•	J-1407			END OF PROGRAM COSOO.			4F12053
								* * * * * * * * * * * * * *	*	* * * * * * * * * * * * * * * *	*4F12054
											4F12055
								C0900/ CALLS=C0190+CIT00+	D.	IAG. CALLER=C1300.	4F12056
								CO900 PROCESSES PAUSE STA			4F12057
	04170	-0	53400	2	04175	C0900	LXD	C090X+2		SET XR2 FOR EXIT TO CAOOO.	4F12058
	4.2.0	•		_							

```
END OF PROGRAM C0900.
                                                                                                                                                              C1000 PROCESSES ASSIGN STATEMENTS.

4F12086
04216 0 07400 4 02366 C1000 TSX GETIFN,4

04217 0 60100 0 01107 STO 1C+2

04220 0 50000 0 01414 CLA L(6) STO 1C

04221 0 62100 0 01105 STA 1C

04222 0 07400 2 01654 TSX C0180X,2

04223 0 40200 0 01432 SUB L(7) IF NEXT CHARACTER IS NOT T, THEN FILED STATES STA
           04216 0 07400 4 02366 C1000 TSX GETIFN.4 * GET INTERNAL FORMULA NUMBER IN 1C 4F12087
```

	04250	0 0	2000	0 04	030		TRA	C0202 END OF PROGRAM * * * * * * *	C1000.	*	CONTINUE BY USING PROGRAM CO2.	4F12114 4F12115
								* * * * * * * *	* * * *	*	* * * * * * * * * * * * * * * * * * *	4F12116
											•	4F12117
								C1100/ CALLS=C0	190 • C0180	• 1	ESTGETIFN-CITOO.	4F12118
								C1100 PROCESSES	SENSE LI	GH	IT STATEMENTS.	4F12119
	04251	0.0	7400	2 01	654	C1100	TSX	C0180X+2		*	GO FORM BINARY EQUIV OF SL NUMBER.	4F12120
	04252	0 0	7400	4 03	271	••••	TSX	TESTD0.4		*	THE NEXT NB CHARACTER SHD BE ENDMK.	4F12122
	04252	0 5	0000	0 01	112		CLA	1 G			STORE SENSE LIGHT NUMBER	4F12123
	04254	0.4	0000	0 01	440		ADD	L(96)			PLUS 96	4F12124
	04255	0 7	6700	00	022		ALS	18			IN DECR	4F12125
	04256	0 6	0100	0 01	112		STO	16			OF 1G.	4F12126
	04257	0 0	7400	4 02	366		TSX	GETIFN:4		*	GET INTERNAL FORMULA NUMBER IN 1C.	4F12127
	04260	0 0	7400	4 01	731		TSX	CI T00+4		*	GO MAKE THE FOLLOWING CIT ENTRY=	4F12128
	04261	0 0	0000	0 01	105		PZE	10			WORD1DECR = INTFORMNO (LOCATION)	4F12129
	04262	0 0	0000	0 01	565		PZE	L(PSE)			WORD2PSE000 (OP AND DECREMENT)	4F12130
	04263	0 0	0000	0 01	406		PZE	L(0)			WORD3000000 (ADDRESS PART)	4F12131
	04264	0 0	0000	0 01	112		PZE	1G			WORD4DECR = 96+ALPHA REST ZEROS.	4F12132
+	04265	1 0	0000	0 03	440		TXI	CA010+0		*	EXIT TO PROCESS NEXT STATEMENT.	4F12133
								END OF PROGRAM	C1100.			4F12134
								* * * * * * *	* * * *	*	* * * * * * * * * * * * * * * * * * * *	4F12135
												4F12136
								C1200/ CALLS=C01	90,C0160	• 1	ESTDIM.SR.DIAG.CO180.DRTABS.	4F12137
								C1200 PROCESSES	DIMENSIO	N	STATEMENTS.	4F12138
	04266	0 0	7400	4 01	707	C1200	TSX	C0190+4		*	PROCEED TO ASSEMBLE IN 1G	4512139
	04267	0 0	7400	2 01	624		TSX	C0160+2		*	THE VARIABLE SYMBOL.	4712140
	04270	0 0	7400 4	4 03	275		TSX	TESTEO.4		*	NEXT NB CHARACTER SHOULD BE LPAKEN.	4512141
	04271	0 5	0000	01	112		CLA	1G			PUT VARIABLE SYMBOL	4512142
	04272	0 6	0100	01	105		510	16			IN ICe	4512149
	04273	0 6	0100	0 01	130		STO	E+2		_	ALSO IN E+20 INEM	4F12144
	04274	0 0	7400	4 01	771		TSX	DIMISK#4		*	THEN IS NOT	4615144 4615144
	04275	0 0	2000	0 04	277		IKA	C1280			FOUND.	4512147
	04276	0 0	2000	0 04	304		IKA	C1299		_	CO CEARCH DING TARLE	4512148
	04277	0 0	7400	4 01	775	C1280	15%	D1M25K94		*	THEN IS NOT	4F12140
	04300	0 0	2000	04	302		IKA	C1201			FOUND.	4F12160
	04301	0 0	2000 (04	304		IKA	C1299			CO CEADOU DING TARIF	4F12153
	04302	0 0	7400	4 02	005	C1281	TOA	0133K#4		*	DO NOT CONTINUE IE	4F12152
	04303	0 0	2000	04	305	c1 200	TCV	C1202		*	VADIABLE DEVICUELY APPEARED.	4F12153
	04304	0 0	7400	+ 03	400	C1297	TCY	C0180Y-2		*	GO FORM RINARY FOULV OF DIA	4F12154
	04305	0 0	7400	2 01	277	C1282	CHE	CLOS		_	IF NOT 1 DIMENSION	4F12156
	04306	0 4	0200	0 07	220		305 T75	C1210			THEN	4F12157
	04307	0 1	0000	04	112		CLA	16			PHT D1	4F12158
	04310	0 5	7700	0 01	114		ALS	18			IN DECR	4F12159
	04311	0 7	0100	00	104		STO	10+1			OF 1C+14	4F12160
	04312	0 0	7400	2 01	454		TSX	C0180X42		*	GO FORM BINARY EQUIV OF D2.	4F12161
	04313	0 0	0200	7 U1	377		SUR	CLOS			ESTDIM.SR.DIAG.CO180.DRTABS. STATEMENTS. PROCEED TO ASSEMBLE IN 1G THE VARIABLE SYMBOL. NEXT NB CHARACTER SHOULD BE LPAREN. PUT VARIABLE SYMBOL IN 1C. ALSO IN E+2. THEN GO SEARCH DIM1 TABLE. THEN IF NOT FOUND. GO SEARCH DIM2 TABLE. THEN IF NOT FOUND. GO SEARCH DIM3 TABLE. DO NOT CONTINUE IF VARIABLE PREVIOUSLY APPEARED. GO FORM BINARY EQUIV OF D1. IF NOT 1 DIMENSION. THEN PUT D1 IN DECR OF 1C+1. GO FORM BINARY EQUIV OF D2. IF NOT 2 DIMENSION. THEN PUT D2 IN ADDRESS OF 1C+1. GO FORM BINARY EQUIV OF D3. IF MORE THAN 3 DIMENSION. THIS IS AN ERROR — GO TO THE DIAGNOSTIC.	4F12163
	04214	0 4	0200 (7 07	334		TZF	C1220			THEN	4F12164
	04212	0 5	0000	1 01	112		CLA	1G			PUT D2	4F12165
	04310	0 4	2100	י ה	106		STA	1C+1			IN ADDRESS OF 1C+1.	4F12166
	04311	0 0	7400	2 01	654		TSX	C0180X+2		*	GO FORM BINARY EQUIV OF D3.	4F12168
	04320	0 4	0200	7 01	377		SUB	CLOS			IF MORE THAN 3 DIMENSION.	4F12169
	04351	0.1	0000	0 04	324		TZE	*+2			THIS IS AN	4F12170
	04366	0.0	7400	. na	400		TSX	DIAG.4		*	ERROR - GO TO THE DIAGNOSTIC.	4F12171
	ひマフとブ	9					. 3					

```
IF 3 DIMENSION, PUT D3
IN 1C+2, AND
# GO MAKE DIM3 ENTRY.
GO TO TEST FOR END OF STATEMENT.
IF 1 DIMENSION. PUT D1
                                                          CLA 1G
 04324 0 50000 0 01112
                                                                                                                                                                                      4F12173
                                                          STO 1C+2
 04325 0 60100 0 01107
                                                                                                                                                                                      4F12174
                                                          TSX DIM31X+4
 04326 0 07400 4 00467
                                                                                                                                                                                      4F12175
                                                          TXI C1201+0
 04327 1 00000 0 04337
                                                                                                                                                                                      4F12176
 04330 0 50000 0 01112 C1210 CLA 1G
04331 0 60100 0 01106 STO 1C+1
                                                                                                 IF I DIMENSION, PUT DI
IN 1C+1, AND
# GO MAKE DIM1 ENTRY. THEN
GO TO TEST FOR END OF STATEMENT.
IF 2 DIMENSION, PUT D2 IN
ADDRESS. PART OF 1C+1. AND
# GO MAKE DIM2 ENTRY. THEN
# OBTAIN NB CHAR FOLLOWING RPAREN.
# TEST FOR COMMA OR ENDMARK.
IF CHARACTER IS ENDMARK, THEN
                                                                                                                                                                                      4F12177
 04331 0 60100 0 01106
                                                                                                                                                                                      4F12178
TSX DIM1IX+4
TXI C1201+0
 04332 0 07400 4 00455
                                                                                                                                                                                      4F12179
                                                                                                                                                                                      4F12180
                                                                                                                                                                                      4F12181
                                                                                                                                                                                      4F12182
                                                                                                                                                                                      4F12183
                                                                                                                                                                                      4F12184
                                                                                                                                                                                      4F12185
                                                                                                                                                                                      4F12186
                                                                                                            * EXIT TO PROCESS NEXT STATEMENT.
                                                          TXI CA010+0
 04342 1 00000 0 03440
                                                                                                                                                                                      4F12187
                                                                   END OF PROGRAM C1200.
                                                                4F12189
                                                                                                                                                                                      4F12190
                                                                 C1300/ CALLS=C0901+TET00+CIT00.
                                                                                                                                                                                      4F12191
                                                                 C1300 PROCESSES STOP STATEMENTS.
                                                                                                           * GO MAKE EIFNO ENTRY
                                                                                                                                                                                      4F12192
 04343 0 07400 1 03321 C1300 TSX TETCO+1
                                                        # USE C0900 TO BEGIN PROCESSING.

# GO MAKE FOLLOWING CIT ENTRY=

WORD1--ALL ZEROS

WORD2--TRA000 (OP+DECR)

WORD3--DECR = INTFORMNO (SYMBOL

WORD4--ZEROS (REL ADDO (TOP)

END OF DOCUMENT OF DOCUMEN
                                                                                                                                                                                      4F12193
 04344 0 00000 0 00017
                                                                                                                                                                                      4F12194
            0 07400 2 04171
 04345
                                                                                                                                                                                      4F12195
 04346 0 07400 4 01731
                                                                                                                                                                                      4F12196
 04347 0 00000 0 01406
                                                                                                                                                                                      4F12197
            0 00000 0 01601
 04350
                                                                                                                  WORD3-DECR = INTFORMNO (SYMBOL)
                                                                                                                                                                                      4F12198
             0 00000 0 01106
                                                                                                                                                                                      4F12199
                                                                                                               WORD4-ZEROS (REL ADDR AND TAG)
              0 00000 0 01406
  04352
                                                                                                                                                                                      4F12200
 04353 1 00000 0 03440
                                                                                                                                                                                      4F12201
                                                                   END OF PROGRAM C1300.
                                                                 4F12203
                                                                                                                                                                                      4F12204
                                                                 C1400/ CALLS=C0190+C0180+TEST...TET00.
                                                                                                                                                                                      4F12205
                                                                  C1400 PROCESSES FREQUENCY STATEMENTS.
                                                         TSX C0180X+2 # GO FORM BINARY EQUIV OF EFN.
                                                                                                                                                                                      4F122006
 04354 0 07400 2 01654 C1400
                                                                                                               * CHARACTER SHOULD BE A LPAREN.
                                                                                                                                                                                      4F12208
 04355 0 07400 4 03275
                                                          TSX TESTEO,4
                                                         # GO TO PROGRAM TET TO ENTER

SYMBOL INTO FRET (TABLE 7); AI

# GO FORM BINARY EQUIV OF M(1);

SAVE CHAR IN ACC;

# GO TO PROGRAM TET TO

INTO TAR! F

INTO TAR! F
                                                                                                                                                                                      4F12209
              0 50200 0 01112
 04356
                                                                                                                                                                                      4F12210
 04357 0 60100 0 01112
                                                                                                                                                                                      4F12211
 04360 0 07400 1 03321
                                                                                                             SYMBOL INTO FRET (TABLE 7), AND
                                                                                                                                                                                      4F12212
 04361 0 00000 0 00007
                                                                                                                                                                                      4F12213
 04362 0.07400 2 01654 C1401
                                                                                                                                                                                      4F12215
 04363 0 60100 0 01105
                                                                                                                                                                                      4F12216
                                                                                                               * GO TO PROGRAM TET TO ENTER M(1)
              0 07400 1 03321
  04364
                                                                                                                                                                                      4F12217
              0 00000 0 00007
  04365
                                                                                                                                                                                      4F12218
              0 50000 0 01105
  04366
                                                                                                                                                                                      4F12219
 04367 0 07400 4 03255
                                                                                                                IF RIGHT PARENTHESIS, THEN
                                                                                                                                                                                      4F12220
                                                          TNZ C1401
  04370 -0 10000 0 04362
                                                         TSX C0190,4
TSX TESTA0,4
TNZ C1400
                                                                                                          * OBTAIN IN ACC NEXT NBCHAR, AND
                                                                                                                                                                                      4F12221
  04371 0 07400 4 01707
                                                                                                               * TEST FOR COMMA OR ENDMARK.
                                                                                                                                                                                      4F12222
 04372 0 07400 4 03247
                                                                                                               IF ENDMARK. THIS STATEMENT IS DONE. 4F12223
 04373 -0 10000 0 04354
                                                                                                               # EXIT TO PROCESS NEXT STATEMENT.
                                                                                                                                                                                      4F12224
                                                          TXI CA010.0
  04374 1 00000 0 03440
                                                                                                                                                                                      4F12225
                                                                  END OF PROGRAM C1400.
                                                                                                                                                                            * * *4F12226
                                                                                                                                                                                      4F12227
```

4F12172

```
4F12228
                                   C1500/ CALLS=C0190, TEST.., C0160, C0180, TET00.
                                                                                                    4F12229
                                   C1500 PROCESSES EQUIVALENCE STATEMENTS.
                                                                                                   4F12230
                                                             * OBTAIN NEXT NBCHAR IN ACC.
                               TSX C0190,4
       0 07400 4 01707 C1500
04375
                                                                                                   4F12231
                                                             * CHARACTER SHOULD BE A LPAREN.
                               TSX TESTEO.4
       0 07400 4 03275
04376
                                                                                                   4F12232
                                                               INITIALIZE 1C
                               CLA L(1)
       0 50000 0 01407 C1501
04377
                                                                                                   4F12233
                                                               TO 1.
                               STO 1C+1
       0 60100 0 01106
04400
                                                             * OBTAIN NEXT NBCHAR IN ACC AND
                                                                                                   4F12234
                               TSX C0190+4
       0 07400 4 01707
04401
                                                                                                   4F12235
                                                             * OBTAIN IN 1G THE SYMBOL V.
                               TSX C0160,2
       0 07400 2 01624
04402
                                                                                                   4F12236
                                                               MOVE V
                               LDQ 1G
       0 56000 0 01112
04403
                                                                                                   4F12237
                                                               INTO 1C.
                               STQ 1C
      -0 60000 0 01105
04404
                                                               EXAMINE CHARACTER LEFT IN THE AC,
                                                                                                   4F12238
                               CAS ALPAR
       0 34000 0 01375
04405
                                                                                                   4F12239
                                                               AND IF
                               TXI C1503.0
       1 00000 0 04416
04406
                                                               CHARACTER IS A LEFT PARENTHESIS,
                                                                                                   4F12240
                               TXI C1502+0
       1 00000 0 04411
04407
                                                                                                   4F12241
                                                             · THEN
                               TXI C1503+0
04410
       1 00000 0 04416
                                                                                                   4F12242
                                                             # GO FORM BINARY EQUIV OF N.
       0 07400 2 01654 C1502
                               TSX C0180X+2
04411
                                                            * 1ST NON-NUMERIC SHOULD BE A RPAREN.4F12244
                               TSX TESTFO.4
04412
       0 07400 4 03301
                                                               PUT BIN EQUIV OF N
                                                                                                   4F12245
                               CLA 1G
       0 50000 0 01112
04413
                                                                                                   4F12246
                                                               IN 1C+1.
                               STO 1C+1
       0 60100 0 01106
04414
                                                             * OBTAIN NEXT NBCHAR IN AC. AND
                                                                                                   4F12247
       0 07400 4 01707
                               TSX C0190+4
04415
                                                                                                   4F12248
                                                             * TEST FOR COMMA OR RPAREN.
                               TSX TESTBO,4
       0 07400 4 03255 C1503
04416
                                                                                                   4F12249
                                                               IF COMMA, THEN
       0 10000 0 04423
                               TZE C1504
04417
                                                            * GO TO PROGRAM TET TO ENTER SYMBOL
                                                                                                   4F12250
                               TSX TETOO:1
       0 07400 1 03321
04420
                                                                                                   4F12251
                                                               AND N IN EQUIT (TABLE 8) + AND
                               PZE 8
       0 00000 0 00010
04421
                                                               RETURN TO CONTINUE PROCESSING X.
                                                                                                   4F12252
                               TXI C1501.0
       1 00000 0 04377
04422
                                                                                                   4F12253
                                                               MAKE SIGN OF N MINUS SINCE
       0 50200 0 01106 C1504
                               CLS 1C+1
04423
                                                                                                   4F12254
                                                               THIS IS LAST ITEM.
                               STO 1C+1
       0 60100 0 01106
04424
                                                             * GO TO PROGRAM TET TO ENTER SYMBOL
                                                                                                   4F12255
                               TSX TETOO,1
       0 07400 1 03321
04425
                                                                                                   4F12256
                                                               AND N IN EQUIT (TABLE 8), AND
                               PZE 8
       0 00000 0 00010
04426
                                                                                                   4F12257
                                                             * OBTAIN NEXT NBCHAR IN ACC, AND
                               TSX C0190,4
       0 07400 4 01707
                                                                                                   4F12258
                                                             * TEST FOR COMMA OR ENDMARK.
                               TSX TESTAO:4
       0 07400 4 03247
                                                                                                   4F12259
                                                               IF ENDMARK, THEN
                               TNZ C1500
04431 -0 10000 0 04375
                                                                                                   4F12260
                                                             * EXIT TO PROCESS NEXT STATEMENT.
                               TXI CA010:0
      1 00000 0 03440
04432
                                                                                                   4F12261
                                     END OF PROGRAM C1500.
                                                                                                  *4F12262
                                                                                                   4F12263
                                                                                                   4F12264
                                   C1600/ CALLS=C0190, TEST..., GIF, BSS.
                                                                                                   4F12265
                                    C1600 PROCESSES CONTINUE STATEMENTS.
                                                                                                   4F12266
                                                             * OBTAIN NEXT NBCHAR IN ACC.
                               TSX C0190 • 4
       0 07400 4 01707 C1600
                                                             * CHARACTER SHOULD BE AN ENDMARK.
                                                                                                   4F12267
                               TSX TESTDO,4
       0 07400 4 03271
                                                             * GET INTERNAL FORMULA NUMBER , AND
                                                                                                   4F12268
                               TSX GIF:4
       0 07400 4 02375
04435
                                                             * GO COMPILE = IFN BSS 0.
                                                                                                   4F12269
                               TSX BSS+2
       0 07400 2 05674
04436
                                                             * EXIT TO PROCESS NEXT STATEMENT.
                                                                                                   4F12270
                               TXI CA010,0
04437
      1 00000 0 03440
                                                                                                   4F12271
                                     END OF PROGRAM C1600.
                                                                                                  *4F12272
                                                                                                   4F12273
                                   C3000/ CALLS=DIAG,C0190,C0160,TEST..,SUBX00,TET00,TESTFX.
                                                                                                   4F12274
                                                                                                   4F12275
                                   C3000 PROCESSES SUBROUTINE AND FUNCTION STATEMENTS.
                                                                                                   4F12276
                               CAL TXHOP
04440 -0 50000 0 00422 C3500
                                                                                                   4F12277
                                STP C3003
       0 63000 0 04454
                                                               EXAMINE INTERNAL FORMULA NO. , AND
                                                                                                   4F12278
04442 -0 53400 4 00030 C3000
                               LXD EIFNO,4
                                                                                                   4F12279
                                                               IF NOT THE 1ST STATEMENT. THEN
04443 -3 00001 4 04445
                                TXL *+2,4,1
                                                             # ERROR - GO TO THE DIAGNOSTIC.
                                                                                                   4F12280
                               TSX DIAG:4
       0 07400 4 03400
                                                               SET ARGCNT TO INDICATE TO LATER
                                                                                                   4F12281
                               CLA ARGCNT
       0 50000 0 01121
04445
                                                               RETURN THAT THERE WAS A PRECEEDING 4F12282
                               SSP
       0 76000 0 00003
```

```
SUBROUTINE OR FUNCTION STATEMENT. 4F12283
             0 60100 0 01121
                                    STO ARGCNT
                                                                * IF 1ST CHARACTER OF NAME IS
                                                                                                      4F12284
             0 07400 4 01707
                                    TSX C0190,4
      04450
                                    TSX TESTHO .4
                                                                * NUMERIC. THEN GO TO THE DIAGNOSTIC.4F12285
      04451
             0 07400 4 03311
                                                                * ASSEMBLE NAME IN 1G.
                                                                                                      4F12286
                                    TSX C0160.2
             0 07400 2 01624
                                                                * NEXT CHAR SHD BE LPAREN OR ENDMARK. 4F12287
                                    TSX TESTCO.4
      04453 0 07400 4 03263
                                                                                                     4F12288
                                    TXL *+3.0
      04454 -3 00000 0 04457 C3003
Ð
                                                                                                     4F12289
                                    CLA 1G
      04455 0 50000 0 01112
                                                                                                      4F12290
                                    STO FSNAME
      04456
             0 60100 0 01332
                                                                * FILL OUT NAME WITH BLANKS.
                                                                                                      4F12291
             0 07400 4 03224
                                    TSX SUBX00,4
      04457
                                                                                                     4F12292
                                                                * GO ENTER NAME
                                    TSX TETOO,1
      04460 0 07400 1 03321
                                    PZE 11
                                                                  IN SUBDEF TABLE.
                                                                                                     4F12293
      04461 0 00000 0 00013
                                                                  PLACE
                                                                                                     4F12294
                                    LXD EIFNO,4
      04462 -0 53400 4 00030
                                    PXD 94
                                                                  INTERNAL FORMULA NUMBER
                                                                                                     4F12295
      04463 -0 75400 4 00000
                                                                                                     4F12296
                                                                  IN G.
                                    STO G
      04464 0 60100 0 01347
                                                                  GO TEST FOR END OF STATEMENT.
                                                                                                     4F12297
                                    TXI C3002.0
      04465 1 00000 0 04506
                                                                  IF NOT ENDMARK, RESTORE CHARACTER
                                                                                                     4F12298
      04466 0 40000 0 01374 C3001
                                    ADD ENDMK
                                    TSX TESTHO.4
                                                                * WHICH SHOULD BE NON-NUMERIC
                                                                                                     4F12299
      04467
             0 07400 4 03311
                                                                  1ST CHARACTER OF ARGUMENT.
                                                                                                     4F12300
                                    STO FIRSTC
      04470
            0 60100 0 01331
                                                                * ASSEMBLE ARGUMENT IN 1G.
                                                                                                     4F12301
                                    TSX C0160,2
             0 07400 2 01624
      04471
                                                                * NEXT CHAR SHD BE COMMA OR RPAREN. 4F12302
                                    TSX TESTBO.4
             0 07400 4 03255
      04472
                                                                                                     4F12303
                                                                  MOVE ARGUMENT
                                    CLA 1G
      04473
             0 50000 0 01112
                                                                  INTO G+1.
                                    STO G+1
                                                                                                     4F12304
      04474
             0 60100 0 01350
                                                               * GO TEST FOR FIXED OR FLOATING PT. 4F12305
                                    TSX TESTFX.1
             0 07400 1 03241
      04475
                                                                  IF FLOATING PT. SKIP FORVAL ENTRY 4F12306
            1 00000 0 04501
                                    TXI C3004+0
      04476
                                                                * IF FIXED POINT, GO MAKE ENTRY
                                    TSX TETOO 1
      04477
             0 07400 1 03321
            0 00000 0 00006
                                    PZE 6
                                                                  IN FORVAL TABLE.
                                                                                                     4F12308
      04500
                                                                * IN BOTH CASES, MAKE ENTRIES IN
                                                                                                     4F12309
                                    TSX TETOO,1
      04501 · 0 07400 1 03321 C3004
                                                                                                     4F12310
                                    PZE 11
                                                                  SUBDEF TABLE.
             0 00000 0 00013
      04502
                                                                  UPDATE
                                                                                                     4F12311
                                    CLA ARGCNT
             0 50000 0 01121
      04503
                                                                  ARGUMENT COUNT
                                                                                                     4F12312
             0 40000 0 01454
                                    ADD D1
      04504
                                                                                                     4F12313
                                    STO ARGCNT
                                                                  BY 1. AND
             0 60100 0 01121
      04505
                                                                * EXAMINE NEXT NON-BLANK CHARACTER. 4F12314
                                   TSX C0190,4
             0 07400 4 01707 C3002
                                                                  IF NOT ENDMARK, THEN
                                                                                                     4F12315
                                    SUB ENDMK
            0 40200 0 01374
      04507
                                                                  GO PROCESS NEXT ARGUMENT.
                                                                                                     4F12316
                                    TNZ C3001
      04510 -0 10000 0 04466
      04511 1 00000 0 03440
                                    TXI CA010.0
                                                                * OTHERWISE, EXIT TO CAOOO.
                                                                                                     4F12317
                                         END OF PROGRAM C3000.
                                                                                                     4F12318
                                        *4F12319
                                                                                                     4F12320
                                        C3100/ CALLS=C0190,DIAG, TEST.., C0160, TET00.
                                                                                                     4F12321
                                        C3100 PROCESSES COMMON STATEMENTS.
                                                                                                     4F12322
                                                                * GET FIRST NON-BLANK CHAR OF SYMBOL 4F12323
      04512 0 07400 4 01707 C3100
                                    TSX C0190,4
                                                                * WHICH SHOULD BE NON-NUMERIC.
                                                                                                     4F12324
                                    TSX TESTHO,4
             0 07400 4 03311
      04513
                                                                * ASSEMBLE SYMBOL IN 1G. AND TEST
                                                                                                     4F12325
             0 07400 2 01624
                                    TSX C0160,2
      04514
                                                                * NEXT CHARACTER FOR COMMA OR ENDMK. 4F12326
                                    TSX TESTA0,4
             0 07400 4 03247
      04515
                                                                  SAVE RESULT OF TEST IN XR4, AND
                                                                                                     4F12327
             0 73400 4 00000
                                    PAX •4
                                                                * GO ENTER THIS SYMBOL
                                                                                                     4F12328
                                    TSX TETOO,1
             0 07400 1 03321
      04517
                                                                  IN COMMON TABLE.
                                                                                                     4F12329
                                    PZE 12
             0 00000 0 00014
      04520
                                                                  ANY ENTRIES IN SUBDEF
                                                                                                     4F123291
                                    CLA SBDFCN
      04521
            0 50000 0 00365
                                                                  INDICATE THIS IS NOT A
                                                                                                     4F123292
      04522 0 10000 0 04534
                                    TZE C3101
                                                                  MAIN PROGRAM. SINCE THIS
                                                                                                     4F123293
                                    CLA 2E18
             0 50000 0 01454
      04523
                                                                  IS A COMMON
                                                                                                     4F123294
                                    STO G
      04524 0 60100 0 01347
                                                                  STATEMENT WHICH
                                                                                                     4F123296
                                    CAL 1G
      04525 -0 50000 0 01112
                                                                  APPEARS IN A SUBPROGRAM
                                                                                                     4F123297
                                    SLW G+1
      04526 0 60200 0 01350
                                    ARS 30
                                                                  ENTER ANY
                                                                                                     4F123298
      04527 0 77100 0 00036
```

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4F123299
                                                             * FIXED POINT
                               TSX TESTFX+1,1
       0 07400 1 03242
04530
                                                                                                    4F12330
                                                               VARIABLES
                               TRA C3101
       0 02000 0 04534
04531
                                                                                                    4F123301
                               TSX TETOO:1
      0 07400 1 03321
04532
                                                                                                    4F123302
                                                               FORVAL TABLE.
                               PZE 6
       0 00000 0 00006
                                                                                                    4F123303
                                                               IF CHARACTER WAS COMMA, REPEAT.
                         C3101 TXH C3100+4+0
      3 00000 4 04512
04534
                                                                                                    4F12331
                                                             # IF ENDMK, EXIT TO CAOOO.
                               TXI CA010.0
      1 00000 0 03440
                                                                                                    4F12332
                                     END OF PROGRAM C3100.
                                                                                                   *4F12333
                                                                                                    4F12334
                                                                                                    4F12335
                                    C3200/ CALLS=C0190, TEST.., GETIFN, DIAG, CITOO, JIF (GIF).
                                                                                                    4F12336
                                    C3200 PROCESSES RETURN STATEMENTS.
                                                             * EXAMINE NEXT NON-BLANK CHARACTER,
                                                                                                    4F12337
       0 07400 4 01707 C3200
                               TSX C0190,4
04536
                                                                                                    4F12338
                                                             * WHICH SHOULD BE AN ENDMARK.
                               TSX TESTDO:4
       0 07400 4 03271
                                                             * GET INTERNAL FORMULA NUMBER IN 1C. 4F12339
                               TSX GETIFN:4
       0 07400 4 02366
04540
                                                                                                    4F12340
                                                             * SET SL TO ALPHA+1.
                               TSX JIF,4
04541
         07400 4 02372
                                                               TEST ARGCNT FOR PRECEEDING
                                                                                                    4F12341
                               CLA ARGCNT
       0 50000 0 01121
04542
                                                                                                    4F12342
                                                               SUBROUTINE - IF NONE . THEN
                               TPL *+2
04543
       0 12000 0 04545
                                                             * ERROR - GO TO THE DIAGNOSTIC.
                                                                                                    4F12343
                               TSX DIAG+4
       0 07400 4 03400
04544
                                                                                                    4F12344
                               CLA FSNAME
04545
       0 50000 0 01332
                                                                                                    4F12345
       0 10000 0 04555
                               TZE *+7
04546
                                                             # GO MAKE THE FOLLOWING CIT ENTRY=
                                                                                                    4F12346
                               TSX CITOO,4
       0 07400 4 01731
04547
                                                                                                    4F12347
                                                               WORD1--0(IFN)000
                               PZE 1C
       0 00000 0 01105
04550
                                                                                                    4F12348
                                                               WORD2--CLA000
                               PZE L(CLA)
       0 00000 0 01541
04551
                                                               WORD3--NAME OF FUNCTION
                                                                                                    4F12349
                               PZE FSNAME
       0 00000 0 01332
04552
                                                                                                    4F12350
                                                               WORD4--000000
                               PZE L(0)
       0 00000 0 01406
04553
                                                                                                    4F12351
                                                               CLEAR 1C.
                               STZ 1C
       0 60000 0 01105
04554
                                                             * GO MAKE THE FOLLOWING CIT ENTRY=
                                                                                                    4F12352
                               TSX CITOO+4
       0 07400 4 01731
04555
                                                                                                    4F12353
                                                               WORD1--0(IFN)000
                               PZE 1C
       0 00000 0 01105
04556
                                                                                                    4F12354
                                                               WORD2--LXD000
                               PZE L(LXD)
       0 00000 0 01561
04557
                                                                                                    4F12355
                                                               WORD3---$
                               PZE DOLSGN
       0 00000 0 01523
04560
                                                                                                    4F12356
                                                               WORD4--000001
                               PZE L(1)
       0 00000 0 01407
04561
                                                             * GO MAKE THE FOLLOWING CIT ENTRY=
                                                                                                    4F12357
       0 07400 4 01731
                               TSX CITOO,4
04562
                                                                                                    4F12358
                                                               WORD1--000000
                               PZE L(0)
       0 00000 0 01406
04563
                                                                                                    4F12359
                                                               WORD2-LXD000
                               PZE L(LXD)
       0 00000 0 01561
04564
                                                                                                    4F12360
                                                               WORD3--$
                               PZE DOLSGN
       0 00000 0 01523
04565
                                                                                                    4F12361
                                                               WORD4--001002
                               PZE ABTAG2
       0 00000 0 01456
04566
                                                                                                    4F12362
                                                             * GO MAKE THE FOLLOWING CIT ENTRY=
                               TSX CITOO,4
       0 07400 4 01731
04567
                                                                                                    4F12363
                                                               WORD1--000000
                               PZE L(0)
       0 00000 0 01406
04570
                                                                                                    4F12364
                                                               WORD2--QXD000
                               PZE L(QXD)
       0 00000 0 01570
04571
                                                                                                    4F12365
                                                               WORD3--$
                               PZE DOLSGN
       0 00000 0 01523
04572
                                                                                                    4F12366
                                                               WORD4--002000
                               PZE ABTAG3
       0 00000 0 01460
04573
                                                             * GO MAKE THE FOLLOWING CIT ENTRY=
                                                                                                    4F12367
                               TSX CITOO+4
       0 07400 4 01731
04574
                                                                                                    4F12368
                                                               WORD1--0(IFN+1)000
                               PZE SL
       0 00000 0 01367
04575
                                                                                                    4F12369
                                                               WORD2---QPR000
                               PZE L(QPR)
       0 00000 0 01567
04576
                                                                                                    4F12370
                                                               WORD3--000000
                               PZE L(0)
       0 00000 0 01406
04577
                                                                                                    4F12371
                                                               WORD4--0(N+1)004
                               PZE ARGCNT
       0 00000 0 01121
04600
                                                             * GO MAKE THE FOLLOWING CIT ENTRY=
                                                                                                    4F12372
                               TSX CITOO,4
       0 07400 4 01731
04601
                                                                                                    4F12373
                                                               WORD1--000000
                               PZE L(0)
       0 00000 0 01406
04602
                                                                                                    4F12374
                                                               WORD2--TRACOC
                               PZE L(TRA)
      .0 00000 0 01601
04603
                                                               WORD3--0(IFN+1)000
                                                                                                    4F12375
                               PZE SL
       0 00000 0 01367
04604
                                                                                                    4F12376
                                                               WORD4--000000
                               PZE L(0)
       0 00000 0 01406
04605
                                                             * EXIT TO PROCESS NEXT STATEMENT.
                                                                                                    4F12377
                               TXI CA010,0
       1 00000 0 03440
04606
                                                                                                    4F12378
                                     END OF PROGRAM C3200.
                                                                                                 * *4F12379
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4F12381
                                            C3300/ CALLS=C0390,C0190X,C0190,TEST...,ARITH,SUBX00.
                                                                                                                            4F12382
                                            C3300 PROCESSES CALL STATEMENTS.
                                                                           * IF 1ST CHARACTER OF NAME IS
         0 07400 4 01707 C3300 TSX C0190:4
                                                                           * NUMERIC. THEN GO TO THE DIAGNOSTIC.4F12384
                                      TSX TESTHO • 4
04610
         0 07400 4 03311
                                                                           * COLLECT THE REST OF THE NAME, WHICH4F12385
                                                                  * SHD BE FULL.

IF LPAREN, THEN CHANGE

* PSEUDO-ARITHMETIC FORMULA (Z10-, 2000)

* PICKUP THE CHARACTER C, AND

WITH Z.
                                      TSX C0160,2
04611
         0 07400 2 01624
                                                                           * SHD BE FOLLOWED BY LPAREN OR ENDMK.4F12386
                                      TSX TESTCO.4
         0 07400 4 03263
04612
                                                                         IF LPAREN, THEN CHANGE CALL TO A 4F12387
                                      TZE C3301
         0 10000 0 04632
04613
                                                                           * PSEUDO-ARITHMETIC FORMULA (Z10=). 4F12388
                                      TSX C0190X+4
         0 07400 4 01671
         0 07400 4 01707
                                      TSX C0190,4
04615
                                      LDQ L(Z)
         0 56000 0 01434
04616
                                                                                                                            4F12391
         0 07400 4 01675
                                      TSX C0390,4
04617
                                                                                                                            4F12392
                                      LDQ L(10)
04620
         0 56000 0 01373
                                                                           * REPLACE A WITH TEN.
                                                                                                                            4F12393
        0 07400 4 01675
                                      TSX C0390,4
04621
                                                                                                                            4F12394
                                      LDQ EQUAL
         0 56000 0 01400
04622
                                                                           * REPLACE FIRST L WITH =.
                                                                                                                            4F12395
                                      TSX C0390,4
04623
         0 07400 4 01675
                                                                                                                            4F12396
                                                                             AND
                                      LDQ BLANK
         0 56000 0 01430
04624
                                                                     * REPLACE SECOND L WITH BLANK.
                                                                                                                           4F12397
                                      TSX C0390+4
         0 07400 4 01675
04625
                                                                  PUT 1ST 1FN OF THIS CALL IN CALLNM 4F12398
FOR LATER TABLE ENTRY OF 4F12399
FIRST / LAST NUMBERS OF CALLS. 4F12400
* THEN EXIT TO ARITH TO PROCESS. 4F12401
* IF THERE ARE NO ARGUMENTS. THEN 4F12402
AFTER COMPLETING NAME WITH BLANKS. 4F12403
                                       CLA EIFNO
         0 50000 0 00030
04626
                                      ARS 18
04627
         0 77100 0 00022
                                       STA CALLNM
04630
         0 62100 0 01123
                                      TXI ARITH+0
        1 00000 0 02404
04631
         0 07400 4 03224 C3301 TSX SUBX00+4
                                                                        AFTER COMPLETING NAME WITH BLANKS, 4F12403
04632
                                      CLA 1G
         0 50000 0 01112
04633
                                                                                                                            4F12404
                                                                           MOVE IT INTO G, AND
04634
         0 60100 0 01347
                                      STO G
                                                                           # GO ENTER NAME
                                                                                                                            4F12405
                                      TSX TETOO:1
         0 07400 1 03321
04635
                                                                     IN CLOSUB TABLE. 4F12406

* PUT INTERNAL FORMULA NUMBER IN 1C. 4F12407

* GO MAKE THE FOLLOWING CIT ENTRY= 4F12408

**HOPPI---OLIENIOGO 4F12409
                                                                                                                            4F12406
                                      PZE 9
04636
         0 00000 0 00011
                                      TSX GETIFN.4
         0 07400 4 02366
04637
                                                                   # GO MAKE THE FOLLOWING CIT ENTRY= 4F12408
WORD1--0(1FN)000 4F12409
WORD2--SXD000 4F12410
WORD3--700000 4F12411
WORD4--000004 4F12412
# GO MAKE THE FOLLOWING CIT ENTRY= 4F12413
WORD1--000000 4F12415
WORD2--TSX000 4F12415
WORD3--(NAME) 4F12416
WORD4--000004 4F12417
# GO MAKE FLOW TRACING INSTRUCTIONS 4F12418
WORD1--000000 4F12419
                                      TSX CITOO,4
04640
         0 07400 4 01731
                                      PZE 1C
         0 00000 0 01105
04641
                                      PZE L(SXD)
04642
         0 00000 0 01575
                                      PZE X(
04643
         0 00000 0 01505
                                      PZE L(4)
         0 00000 0 01412
04644
                                      TSX CITOO+4
         0 07400 4 01731
04645
         0 00000 0 01406
                                      PZE L(O)
04646
                                      PZE L(TSX)
04647
         0 00000 0 01602
                                      PZE 1G
        0 00000 0 01112
04650
                                      PZE L(4)
         0 00000 0 01412
04651
                                      TSX FLTROO,4
         0 07400 4 03401
04652
                                                                        WORD1--000000
                                      PZE L(0)
04653
         0 00000 0 01406
                                                                                                                           4F12420
                                                                             WORD2--LXD000
                                      PZE L(LXD)
         0 00000 0 01561
04654
                                                                                                                           4F12421
                                                                           WORD3--700000
                                      PZE X(
04655
         0 00000 0 01505
                                                                                                                            4F12422
                                                                             WORD4--000004
         0 00000 0 01412
                                      PZE L(4)
04656
                                                                           * EXIT TO PROCESS NEXT STATEMENT.
                                                                                                                           4F12423
                                      TXI CA010,0
        1 00000 0 03440
                                                                                                                           4F12424
                                             END OF PROGRAM C3300.
                                            4F12426
                                                                                                                           4F12427
                                            C3400/ CALLS=C0190.DIAG.TEST...
                                                                                                                           4F12428
                                            C3400 PROCESSES END STATEMENTS.
        0 53400 2 01413 C3400 LXA L(5),2 PREPARE TO SET 5 SS SIMULATORS. 4F12429
0 07400 4 01707 C3405 TSX C0190,4 * PICKUP CONSTANT, 4F12430
0 34000 0 01410 CAS L(2) WHICH SHOULD BE 0,1, OR 2. 4F12431
0 07400 4 03400 TSX DIAG,4 * OTHERWISE, GO TO THE DIAGNOSTIC. 4F12432
1 00000 0 04666 TXI C3410,0 SIMULATOR IS PRESET TO 2. 4F12433
04663
04664
       1 00000 0 04666
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4F12434
                               STO ENDI1+5,2
                                                              IF O OR 1, SET PROPER SIMULATOR.
       0 60100 2 00036
04665
                                                            * SKIP NEXT NON-BLANK CHARACTER, AND 4F12435
       0 07400 4 01707 C3410
                               TSX C0190:4
                                                              REPEAT PROCESS FOR 5 CONSTANTS.
                                                                                                  4F12436
       2 00001 2 04661
                               TIX C3405,2,1
                                                            * EXAMINE NEXT NON-BLANK CHARACTER,
                                                                                                  4F12437
                               TSX C0190,4
       0 07400 4 01707
                                                                                                  4F12438
                                                            * WHICH SHOULD BE AN ENDMK.
                               TSX TESTDO,4
04671 0 07400 4 03271
                                                                                                  4F12439
                                                            * EXIT TO PROCESS NEXT STATEMENT.
      1 00000 0 03440
                               TXI CA010,0
                                                                                                  4F12440
                                    END OF PROGRAM C3400.
                                                                                     * * * * * * *4F12441
                                                                                                  4F12442
                                                                                                  4F12443
                                   STATEA/3-PROCESS INPUT-OUTPUT STATEMENTS=
                                                                                                  4F12444
                                                                                             * * *4F12445
                                                                                                  4F12446
                                                                                                  4F12447
                                   RDC/ CALLS=INPUT.BEG.DIAG.ETMSW.LIB.CIT.JIF.
                                                                                                  4F12448
                                   RDC PROCESSES READ STATEMENTS.
                                                              SET THE ADDRESS FIELD OF
                                                                                                  4F12449
04673 0 50000 0 01437 RDC
                               CLA A81
                                                              ENT (NTROOO) TO 81.
                                                                                                  4F12450
                               STA ENT
      0 62100 0 02067
                                                            * GO COMPILE CAL *, AND XIT (LEV).
                                                                                                  4F12451
                               TSX INPUT.2
      0 07400 2 06002
04675
                                                              PICKUP (CSH) TO
                                                                                                  4F12452
                               CLA CSH
       0 50000 0 06127
04676
                                   TSC= ENTRY POINT USED BY RIT.
                                                                                                  4F12453
                                                                                                  4F12454
                                                              SET TSA.
                               STO TSA
04677 0 60100 0 06143 TSC
                                                                                                  4F12455
                                                              MOVE (RTN)
                               CAL RTN
04700 -0 50000 0 06133
                                                                                                  4F12456
                                                              INTO END.
                               SLW END
04701
      0 60200 0 06141
                                                                                                  4F12457
                                                              PICKUP (DBC) TO
04702 0 50000 0 06130
                               CLA DBC
                                                                                                  4F12458
                                   TIC= ENTRY POINT USED BY RDP.
                                                                                                  4F12459
                                                              SET TTA.
                               STO TTA
      0 60100 0 06144 TTC
64703
                                                            * CONVERT CONSTANT FORMAT NUMBER.
                                                                                                  4F12460
                               TSX BEG • 4
04704
      0 07400 4 05603
                                                            * ATTEMPT TO USE VARIABLE FORMAT NO. 4F12461
04705 0 07400 4 03400
                               TSX DIAG,4
                                                              GO TO THE DIAGNOSTIC. IF THERE WAS 4F12462
04706 -0 10000 4 00004
                               TNZ 494
                               TSX DIAG 4
                                                            * NO FORMAT NUMBER GIVEN.
                                                                                                  4F12463
04707 0 07400 4 03400
                                                              MOVE BINARY FORMAT NUMBER INTO SET-4F12464
      0 62100 0 01366
                               STA SET
04710
                                                                                                  4F12465
                                                              MOVE NTROOD
04711 -0 50000 0 06114
                               CAL NTR
                                                                                                  4F12466
                                                              INTO OP.
                               SLW OP
04712 0 60200 0 07401
                                                              SET OP-SWITCHES,
                                                                                                  4F12467
                               CLA TXLOP
       0 50000 0 00415
04713
                                                                                                  4F12468
                                                              ETMSW AND LTMSW,
                               STP ETMSW
04714
      0 63000 0 05754
                                                                                                  4F12469
                                                              TO NO TRANSFER CASE.
                               STP LTMSW
      0 63000 0 05757
                                                                                                  4F12470
                                                           * GO COMPILE ETM.
                               TSX ETMSW+4
       0 07400 4 05754
04716
                                                                                                  4F12471
                                                            * MAKE CLOSUB ENTRY, AND COMPILE=
                               TSX LIB+4
       0 07400 4 06023
04717
                                                                                                  4F12472
                                                              WORD1--000000
       0 00000 0 01406
                               PZE L(0)
04720
                                                                                                  4F12473
                                                              WORD2--CALOOO
                               PZE CAL
       0 00000 0 01537
04721
                                                              WORD3--(DBC) OR (BDC)
                                                                                                  4F12474
       0 00000 0 06144
                               PZE TTA
04722
                                                              WORD4--000000
                                                                                                  4F12475
                               PZE L(0)
       0 00000 0 01406
04723
                                                            * GO MAKE THE FOLLOWING CIT ENTRY=
                                                                                                  4F12476
                               TSX CIT+4
04724
       0 07400 4 01731
                                                                                                  4F12477
                                                              WORD1--000000
       0 00000 0 01406
                               PZE L(0)
04725
                                                              WORD2--SLW000
                                                                                                  4F12478
                               PZE SLW
       0 00000 0 06120
04726
                                                                                                  4F12479
                                                              WORD3--000000
                               PZE L(0)
       0 00000 0 01406
04727
                                                              WORD4--001000
                                                                                                  4F12480
                               PZE D1
       0 00000 0 01454
04730
                                                            * MAKE CLOSUB ENTRY, AND COMPILE=
                                                                                                  4F12481
       0 07400 4 06023
                               TSX LIB,4
04731
                                                                                                  4F12482
                                                              WORD1--000000
                               PZE L(0)
       0 00000 0 01406
04732
                                                                                                  4F12483
                                                              WORD2--CALOOO
                               PZE CAL
       0 00000 0 01537
04733
                                                              WORD3--(CSH) OR (TSH)
                                                                                                  4F12484
                               PZE TSA
       0 00000 0 06143
04734
                                                              WORD4--000000
                                                                                                  4F12485
                               PZE L(0)
       0 00000 0 01406
04735
                                                           * GO MAKE THE FOLLOWING CIT ENTRY=
                                                                                                  4F12486
                               TSX CIT+4
       0 07400 4 01731
04736
                                                                                                  4F12487
                                                              WORD1--0(IFN)0(248)
                               PZE TL
       0 00000 0 01371
```

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04740 0 00000 0 02067
                                     PZE ENT
                                                                  WORD2--NTRO(81, OR UNIT, OR OO)
                                                                                                      4F12488
       04741 0 00000 0 01366
                                    PZE SET
                                                                  WORD3---800(FORMAT NUMBER)
                                                                                                      4F12489
                                    PZE L(0)
                                                                  WORD4--000000
       04742 0 00000 0 01406
                                                                                                      4F12490
                                                                * GO JUMP IFN: AND SET SL AND TL.
       04743 0 07400 4 02372
                                    TSX JIF,4
                                                                                                      4F12491
                                        BXT = EXIT SWITCH TO RSC OR LAST, USED BY WBT, RBT, WRD.
                                                                                                      4F12492
                                                                * EXIT TO SCAN LIST, IF THERE IS ONE.4F12493
       04744 1 00000 0 05141 BXT
                                    TXI RSC + 0
                                         END OF PROGRAM RDC.
                                                                                        * * * * * # #4F12495
                                                                                                     4F12496
                                        RIT/ CALLS=INPUT.BEG.VRD. USES=RDC.
                                                                                                     4F12497
                                        RIT PROCESSES READ INPUT TAPE STATEMENTS.
                                                                                                     4F12498
      04745 0 07400 2 06002 RIT
                                    TSX INPUT.2
                                                                * GO COMPILE CAL *, AND XIT (LEV).
                                                                                                     4F12499
                                                                * SCAN AND TEST TYPE OF UNIT SYMBOL. 4F12500
      04746 0 07400 4 05603
                                    TSX BEG.4
      04747 0 07400 4 06036
                                    TSX VRD 4
                                                                * IF VARIABLE, ENTER FORVAR AND CITS.4F12501
      04750 0 62100 0 02067
                                    STA ENT
                                                                  IF CONSTANT, SET ENT= NTRO(UNIT). 4F12502
      04751 0 50000 0 06137
                                    CLA TSH
                                                                  PICKUP (TSH) TO SET TSA, AND
                                                                                                     4F12503
                                    TXI TSC.0
                                                                * CONTINUE BY USING PROGRAM RDC.
      04752 1 00000 0 04677
                                                                                                     4F12504
                                         END OF PROGRAM RIT.
                                                                                                     4F12505
                                        * *4F12506
                                                                                                     4F12507
                                        RDP/ CALLS=OUTPUT. USES=RDC.
                                                                                                     4F12508
                                        RDP PROCESSES PRINT STATEMENTS.
                                                                                                     4F12509
                                    PXD .0
      04753 -0 75400 0 00000 RDP
                                                                  RESET ENT
                                                                                                     4F12510
      04754 0 62100 0 02067
                                    STA ENT
                                                                  TO NTROOG.
                                                                                                     4F12511
                                    TSX OUTPUT • 2
                                                                * GO COMPILE CAL *, AND XIT (LEV).
      04755 0 07400 2 06004
                                                                                                     4F12512
      04756 0 50000 0 06135
                                    CLA SPH
                                                                  PICKUP (SPH), AND
                                                                                                     4F12513
                                        TSD= ENTRY POINT USED BY WOT, PDC.
                                                                                                     4F12514
                                    STO TSA
      04757 0 60100 0 06143 TSD
                                                                  SET TSA.
                                                                                                     4F12515
      04760 -0 50000 0 06131
                                    CAL FIL
                                                                  MOVE (FIL)
                                                                                                     4F12516
                                    SLW END
                                                                  INTO END.
      04761 0 60200 0 06141
                                                                                                     4F12517
      04762 0 50000 0 06126
                                    CLA BDC
                                                                 PICKUP (BDC) TO SET TTA, AND
                                                                                                     4F12518
      04763 1 00000 0 04703
                                    TXI TTC.0
                                                                * CONTINUE BY USING PROGRAM RDC.
                                                                                                     4F12519
                                         END OF PROGRAM RDP.
                                                                                                     4F12520
                                                                                                  * *4F12521
                                                                                                     4F12522
                                        WOT/ CALLS=OUTPUT, BEG, VRD. USES=RDP.
                                                                                                     4F12523
                                        WOT PROCESSES WRITE OUTPUT TAPE STATEMENTS.
                                                                                                     4F12524
      04764 0 07400 2 06004 WOT
                                    TSX OUTPUT • 2
                                                               * GO COMPILE CAL *, AND XIT (LEV).
                                                                                                     4F12525
      04765 0 07400 4 05603
                                    TSX BEG +4
                                                               * SCAN AND TEST TYPE OF UNIT SYMBOL. 4F12526
      04766 0 07400 4 06036
                                   TSX VRD+4
                                                               * IF VARIABLE, ENTER FORVAR AND CITS.4F12527
      04767 0 62100 0 02067
                                    STA ENT
                                                                 IF CONSTANT, SET ENT= NTRO(UNIT). 4F12528
      04770 0 50000 0 06136
                                    CLA STH
                                                                 PICKUP (STH) TO SET TSA, AND
                                                                                                    4F12529
                                    TXI TSD.0
                                                               * CONTINUE BY USING PROGRAM RDP.
      04771 1 00000 0 04757
                                                                                                    4F12530
D
                                         END OF PROGRAM WOT.
                                                                                                    4F12531
                                                                                                 * *4F12532
                                                                                                    4F12533
                                        PDC/ CALLS=OUTPUT. USES=RDP.
                                                                                                    4F12534
                                       PDC PROCESSES PUNCH STATEMENTS.
                                                                                                    4F12535
                                   PXD .O
                                                                 RESET ENT
                                                                                                    4F12536
      04772 -0 75400 0 00000 PDC
      04773 0 62100 0 02067
                                    STA ENT
                                                                 TO NTROOO.
                                                                                                    4F12537
                                    TSX OUTPUT .2
                                                               * GO COMPILE CAL *, AND XIT (LEV).
      04774 0 07400 2 06004
                                                                                                    4F12538
      04775 0 50000 0 06134
                                    CLA SCH
                                                                 PICKUP (SCH) TO SET TSA, AND
                                                                                                    4F12539
                                   TXI TSD.0
                                                               * CONTINUE BY USING PROGRAM RDP.
      04776
            1 00000 0 04757
                                                                                                    4F12540
D
                                        END OF PROGRAM PDC.
                                                                                                    4F12541
```

```
* *4F12542
                                                                                                          4F12543
                                                                                                          4F12544
                                          WBT/ CALLS=OUTPUT, BRW, CIT.
                                                                                                          4F12545
                                          WBT PROCESSES WRITE TAPE STATEMENTS.
                                                                                                          4F12546
                                                                     MOVE WTB000
                                     CAL WTB
      04777 -0 50000 0 06124 WBT
                                                                                                          4F12547
                                                                     INTO OP.
                                     SLW OP
      05000 - 0 60200 0 07401
                                                                   # GO COMPILE CAL *, AND XIT (LEV).
                                                                                                          4F12548
                                     TSX OUTPUT #2
             0 07400 2 06004
      05001
                                                                                                          4F12549
                                                                    PICKUP BINARY TAPE ADDRESS, AND
                                     CAL BTA
      05002 -0 50000 0 01475
                                                                   * COMPILE INSTRS TO SET UNIT DESIG.
                                                                                                          4F12550
                                     TSX BRW+4
      05003
             0 07400 4 05646
                                                                                                          4F12551
                                                                  * GO MAKE THE FOLLOWING CIT ENTRY=
                                     TSX CIT+4
      05004
             0 07400 4 01731
                                                                                                          4F12552
                                                                    WORD1--000000
                                     PZE L(0)
      05005
             0 00000 0 01406
                                                                                                          4F12553
                                                                    WORD2-CPY000
                                     PZE CPY
      05006
             0 00000 0 01544
                                                                                                          4F12554
                                                                    WORD3--600000
                                     PZE ZER
      05007
             0 00000 0 01504
                                                                     WORD4-002000
                                     PZE D2
             0 00000 0 01457
      05010
                                                                   * EXIT TO SCAN LIST, IF THERE IS ONE.4F12556
                                     TXI BXT.0
            1 00000 0 04744
D
      05011
                                                                                                          4F12557
                                           END OF PROGRAM WBT.
                                                                                                * * * * *4F12558
                                                                                                          4F12559
                                                                                                          4F12560
                                          RBT/ CALLS=INPUT, BRW, CIT.
                                                                                                          4F12561
                                          RBT PROCESSES READ TAPE STATEMENTS.
                                                                                                          4F12562
                                                                     MOVE RTBOOD
                                     CAL RTB
      05012 -0 50000 0 06117 RBT
                                                                                                          4F12563
                                                                     INTO OP.
                                     SLW OP
      05013
             0 60200 0 07401
                                                                                                          4F12564
                                                                   * GO COMPILE CAL *, AND XIT (LEV).
                                     TSX INPUT + 2
             0 07400 2 06002
      05014
                                                                     PICKUP BINARY TAPE ADDRESS, AND
                                                                                                          4F12565
      95015 -0 50000 0 01475
                                     CAL BTA
                                                                   * COMPILE INSTRS TO SET UNIT DESIG.
                                                                                                          4F12566
                                     TSX BRW+4
      05016
             0 07400 4 05646
                                                                                                          4F12567
                                                                   * GO MAKE THE FOLLOWING CIT ENTRY=
                                     TSX CIT+4
             0 07400 4 01731
      05017
                                                                                                          4F12568
                                                                     WORD1--000000
                                     PZE L(0)
             0 00000 0 01406
      05020
                                                                                                          4F12569
                                                                     WORD2--CPY000
                                     PZE CPY
      05021
             0 00000 0 01544
                                                                                                          4F12570
                                                                    WORD3--100000
                                     PZE DMP
      05022
             0 00000 0 01500
                                                                                                          4F12571
                                                                     WORD4--000000
                                     PZE L(0)
      05023
             0 00000 0 01406
                                                                  * GO MAKE THE FOLLOWING CIT ENTRY=
                                                                                                          4F12572
                                     TSX CIT+4
             0 07400 4 01731
      05024
                                                                                                          4F12573
                                                                     WORD1--000000
                                     PZE L(0)
             0 00000 0 01406
      05025
                                                                                                          4F12574
                                                                    WORD2--X1T000
                                     PZE XIT
             0 00000 0 06125
      05026
                                                                                                          4F12575
                                                                    WORD3--*00000
                                     PZE 15P
             0 00000 0 01510
      05027
                                                                                                          4F12576
                                                                    WORD4--003000
             0 00000 0 01461
                                     PZE D3CN
      05030
                                                                  * GO MAKE THE FOLLOWING CIT ENTRY=
                                                                                                          4F12577
                                     TSX CIT+4
             0 07400 4 01731
      05031
                                                                                                          4F12578
                                                                    WORD1-000000
                                     PZE L(0)
             0 00000 0 01406
      05032
                                                                                                          4F12579
                                                                    WORD2---HPR000
                                     PZE HPR
      05033
             0 00000 0 01554
                                                                                                          4F12580
                                                                    WORD3--000000
                                     PZE L(0)
      05034
             0 00000 0 01406
                                                                                                          4F12581
                                                                     WORD4-000000
                                     PZE L(0)
             0 00000 0 01406
      05035
                                                                  # GO MAKE THE FOLLOWING CIT ENTRY=
                                                                                                          4F12582
                                     TSX CIT+4
             0 07400 4 01731
      05036
                                                                                                          4F12583
                                                                     WORD1--000000
                                     PZE L(0)
             0 00000 0 01406
      05037
                                                                                                          4F12584
                                                                     WORD2--XITO00
                                     PZE XIT
             0 00000 0 06125
      05040
                                                                                                          4F12585
                                                                     WORD3--0(IFN)0(248)
                                     PZE TL
             0 00000 0 01371
      05041
                                                                                                          4F12586
                                                                     WORD4--000000
                                     PZE L(0)
      05042
             0.00000 0 01406
                                                                   * EXIT TO SCAN LIST. IF THERE IS ONE.4F12587
                                      TXI BXT.0
             1 00000 0 04744
      05043
                                           END OF PROGRAM RBT.
                                                                                                    * * *4F12589
                                                                                                          4F12590
                                                                                                          4F12591
                                         WRD/ CALLS=OUTPUT,BRW,CIT.
                                          WRD PROCESSES WRITE DRUM STATEMENTS.
                                                                                                          4F12592
                                                                                                          4F12593
                                                                  * GO COMPILE CAL *, AND XIT (LEV).
                                     TSX OUTPUT • 2
      05044 0 07400 2 06004 WRD
                                                                    PICKUP WDROOD, AND
                                                                                                          4F12594
                                     CAL WDR
      05045 -0 50000 0 06122
                                                                                                          4F12595
                                         XDR= ENTRY POINT USED BY RDD.
```

```
SLW OP
                                                          SET OP.
                                                                                            4F12596
05046 0 60200 0 07401 XDR
                                                          PICKUP BINARY DRUM ADDRESS, AND
                             CAL BDA
                                                                                            4F12597
05047 -0 50000 0 01476
                                                        * COMPILE INSTRS TO SET UNIT DESIG. 4F12598
                             TSX BRW.4
05050 0 07400 4 05646
                             CAL PXD
                                                          MOVE PXDOOD
                                                                                            4F12599
05051 -0 50000 0 01566
                             SLW OP
                                                          INTO OP.
                                                                                            4F12600
05052 0 60200 0 07401
                                                          CLEAR THE AC, AND
                                                                                            4F12601
05053 -0 75400 0 00000
                             PXD •0
                                                        * COMPILE INSTRS TO SET DRUM LOC.
                                                                                            4F12602
05054 0 07400 4 05646
                             TSX BRW+4
                                                      * GO MAKE THE FOLLOWING CIT ENTRY=
                                                                                            4F12603
                             TSX CIT+4
05055 0 07400 4 01731
                             PZE L(0)
                                                          WORD1-000000
                                                                                            4F12604
05056 0 00000 0 01406
                                                                                            4F12605
                             PZE LDA
                                                          WORD2-LDA000
05057 0 00000 0 01555
                                                                                            4F12606
05060 0 00000 0 01371
                             PZE TL
                                                          WORD3--0(IFN)0(248)
                                                          WORD4--000000
                                                                                            4F12607
                             PZE L(0)
05061 0 00000 0 01406
                                                        * EXIT TO SCAN LIST. IF THERE IS ONE.4F12608
05062 1 00000 0 04744
                             TXI BXT.0
                                  END OF PROGRAM WRD.
                                 4F12611
                                                                                            4F12612
                                 RDD/ CALLS=INPUT. USES=WRD.
                                 RDD PROCESSES READ DRUM STATEMENTS.
                                                                                            4F12613
                                                        * GO COMPILE CAL *, AND XIT (LEV).
                                                                                            4F12614
                             TSX INPUT+2
05063 0 07400 2 06002 RDD
                             CAL RDR
                                                        PICKUP RDROOD TO SET OP, AND
                                                                                            4F12615
05064 -0 50000 0 06115
                                                       * CONTINUE BY USING PROGRAM WRD.
                                                                                            4F12616
05065 1 00000 0 05046
                                 END OF PROGRAM RDD.
                                                                                            4F12617
                                 4F12619
                                                                                            4F12620
                                 EFT/ CALLS=GIF,BEG,VRAX,CIT.
                                 EFT PROCESSES WRITE END OF FILE STATEMENTS.
                                                                                            4F12621
                             CAL WEF
                                                          PICKUP WEFOOO, AND
                                                                                            4F12622
05066 -0 50000 0 06123 EFT
                                TPO= ENTRY POINT USED BY RWN. BSP.
                                                                                         - 4F12623
                                                          SET OP.
                                                                                            4F12624
                             SLW OP
05067 0 60200 0 07401 TPO
                                                         MOVE BINARY TAPE ADDRESS
                                                                                            4F12625
05070 -0 50000 0 01475
                             CAL BTA
                                                          INTO CON.
                             SLW CON
                                                                                            4F12626
05071 0 60200 0 06140
                                                       * GET IFN INTO SL AND TL.
                             TSX GIF 4
                                                                                            4F12627
05072 0 07400 4 02375
                             CLA L(SL)
                                                          RESET TPOA ADDRESS
                                                                                            4F12628
05073 0 50000 0 02377
                                                                                            4F12629
                             STA TPOA
                                                          TO SL.
05074 0 62100 0 05102
                             TSX BEG +4
                                                       * SCAN AND TEST TYPE OF UNIT SYMBOL. 4F12630
05075 0 07400 4 05603
                                                       * IF VARIABLE, ENTER FORVAR AND CITS, 4F12631
                             TSX VRA+4
05076 0 07400 4 06032
                                            IF CONSTANT? REPRESENT OF RASPLACE IN THE DECREMENT OF RASPLACE IN THE FOLLOWING CIT ENTRY=
WORD1--0(IFN)000 OR 0(IFN)0(248)
WORD2--(WEF,REW,OR BSP)000
WORD3--000000
WORD4--0(CON)000 OR 000000
TO PESET BXT, AND TEST FOR EFN.
                                                                                            4F12632
                             ALS 18
05077 0 76700 0 00022
                             STO RA
                                                                                            4F12633
05100 0 60100 0 07402
                             TSX CIT+4
                                                                                            4F12634
05101 0 07400 4 01731
                                                                                            4F12635
05102 0 00000 0 01367 TPOA PZE SL
                                                                                            4F12636
                             PZE OP
05103 0 00000 0 07401
                                                                                            4F12637
                             PZE L(0)
05104 0 00000 0 01406
                                                                                            4F12638
05105 0 00000 0 07402
                             PZE RA
                                                                                            4F12639
                             TXI FINI .O
05106 1 00000 0 05567
                                 END OF PROGRAM EFT.
                                                                                            4F12640
                                 * * * * * * *4F12641
                                                                                            4F12642
                                                                                            4F12643
                                 RWN/ USES=EFT.
                                 RWN PROCESSES REWIND TAPE STATEMENTS.
                                                                                            4F12644
                                     PICKUP REWOOD TO SET OP, AND
                             CAL REW
                                                                                           4F12645
05107 -0 50000 0 06116 RWN
                            TXI TPO+0
                                                       * CONTINUE BY USING PROGRAM EFT.
                                                                                           4F12646
05110 1 00000 0 05067
                                 END OF PROGRAM RWN.
                                                                                            4F12647
                                                                                         * *4F12648
                                                                                           4F12649
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4F12650
                                  BSP/ USES=EFT.
                                  BSP PROCESSES BACKSPACE TAPE STATEMENTS.
                                                                                                4F12651
                                                            PICKUP BSTOOD TO SET OP. AND
                                                                                                4F12652
                              CAL BST
05111 -0 50000 0 06111 BSP
                                                          * CONTINUE BY USING PROGRAM EFT.
                                                                                                4F12653
                              TXI TPO.0
05112 1 00000 0 05067
                                                                                                4F12654
                                   END OF PROGRAM BSP.
                                                                                               *4F12655
                                  4F12657
                                  FOR/ CALLS=TETOO.
                                                                                                4F12658
                                  FOR PROCESSES FORMAT STATEMENTS.
                                                            MOVE EXTERNAL FORMULA NUMBER
                                                                                                4F12659
                              CAL EIFNO
05113 -0 50000 0 00030 FOR
                                                                                                4F12660
                                                            INTO THE ADDRESS OF SET.
05114 0 62100 0 01366
                              STA SET
                                                                                                4F12661
                                                            AND MOVE SET (8000(EFN))
                              CAL SET
05115 -0 50000 0 01366
                                                                                                4F12662
                                                            INTO G.
                              SLW G
05116 0 60200 0 01347
                                                            SET XR1 = CHARACTER COUNT.
                                                                                                4F12663
                              LXD CHCTR.1
05117 -0 53400 1 01724
                                                            SET XR2 = - (CURRENT F-WORD ADDR).
                                                                                                4F12664
                              LXD FWA . 2
05120 -0 53400 2 01614
                                                            UNLESS POSITIONED AT THE
                                                                                                4F12665
                              TXL NFFW 1 1 1
05121 -3 00001 1 05137
                                                                                                4F12666
                                                            BEGINNING OF A FORMAT WORD,
                              TXI *+1,1,-1
05122 1 77777 1 05123
                                                                                                4F12667
                                                            THEN PICKUP AND
                              LDQ RESIDU
05123 0 56000 0 01365
                                                            PRECEED WITH BLANKS ANY
                                                                                                4F12668
                              CAL BLANKS
05124 -0 50000 0 01526
                                                                                                4F12669
                                                            CHARACTERS
05125 -0 76300 0 00006
                              LGL 6
                                                                                                4F12670
                                                            REMAINING IN THE MQ, AND
                              TIX NFC,1,1
     2 00001 1 05125
05126
                                                            MOVE FORMAT WORDS INTO G+1.
                                                                                                4F12671
                              SLW G+1
05127
      0 60200 0 01350
                                                                                                4F12672
                                                          * GO ENTER THEN IN
                              TSX TETOO:1
05130
      0 07400 1 03321
                                                            THE FORMAT TABLE.
                                                                                                4F12673
                              PZE 10
05131 0 00000 0 00012
                                                                                                4F12674
                                                            WHEN THE
                              CAL G+1
05132 -0 50000 0 01350
                                                                                                4F12675
                                                            END OF STATEMENT MARK
                              ANA ENDMK
05133 -0 32000 0 01374
                                                                                                4F12676
                                                            HAS BEEN ENTERED.
                              SUB ENDMK
05134 0 40200 0 01374
                                                          * EXIT TO PROCESS NEXT STATEMENT.
                                                                                                4F12677
     0 10000 0 03440
                              TZE CA010
05135
                                                            PRECEED ALL BUT 1ST ENTRY WITH 0.
                                                                                                4F12678
05136 0 60000 0 01347
                              STZ G
                                                            PICKUP NEXT FORMAT WORD,
                                                                                                4F12679
                             CAL 0,2
05137 -0 50000 2 00000
                                                            UPDATE SCAN INDEX. AND CONTINUE.
                                                                                                4F12680
                              TXI NFW-2--1
05140 1 77777 2 05127
                                                                                                4F12681
                                   END OF PROGRAM FOR.
                                                                                               *4F12682
                                                                                                4F12683
                                                                                                4F12684
                                  RSC/ CALLS=C0190,DIAG.
                                  RSC SCANS EACH CHARACTER IN A STATEMENT UNTIL EQUALITY IS
                                                                                                4F12685
                                  FOUND ON ONE OF THE PUNCTUATION MARKS IN THE CTEST BLOCK IN
                                                                                                4F12686
                                  COMMON. THEN A TAGGED EXIT IS MADE THROUGH THE BLOCK OF
                                                                                                4F12687
                                  CONTROL TRANSFERS INDICATED BY THE ADDRESS STORED IN CEXIT.
                                                                                                4F12688
                                  RSC = ENTRY POINT FROM THE BXT SWITCH IN RDC, AND FROM SPC.
                                                                                                4F12689
                                                            RESET TEMPORARY
                                                                                                4F12690
                              CAL FLINE
05141 -0 50000 0 05361 RSC
                                                            TABLE LINE COUNTER.
                                                                                                4F12691
                              STA TLINE
05142 0 62100 0 01372
                                                            CLEAR DO LEVEL COUNTER.
                                                                                                4F12692
                             STZ DOLEV
05143 0 60000 0 07400
                                                            CLEAR GENERALIZED TAG.
                                                                                                4F12693
                              STZ GTAG
      0 60000 0 01351
05144
                                                                                                4F12694
                                  LSC = ENTRY POINT FROM SPC.
                                                            SET CONTROL TRANSFER
                                                                                                4F12695
05145 -0 50000 0 05204 LSC
                              CAL LISTR
                                  CXS = ENTRY POINT FROM EQS, BEG.
                                                                                                4F12696
                                                                                                4F12697
                                                            FOR LIST SCAN.
05146 0 62100 0 05156 CXS
                              STA CEXIT
                                  NXS = ENTRY POINT FROM LPR, SPC, CMA.
                                                                                                4F12698
                                                            RESET SYMBOL CHARACTER COUNT
                                                                                                4F12699
                              LXA L(6),2
05147 0 53400 2 01414 NXS
                                                                                                4F12700
                                                            AND SHIFT COUNT.
                              SXD CSJ,2
05150 -0 63400 2 05637
                                                                                                4F12701
                                                            CLEAR SYMBOL WORKING STORAGE.
                              STZ SYM
      0 60000 0 07404
05151
                                                                                                4F12702
                                  NXC = ENTRY POINT FROM CMA.
                                                          * OBTAIN NEXT NB CHARACTER IN THE AC.4F12703
05152 0 07400 4 01707 NXC
                              TSX C0190.4
                                                            SET XR4 TO PICK CONTROL CHARACTERS.4F12704
05153 0 53400 4 02652 CLOAD
                              LXA CTESTX,4
```

```
CAS CTEST,4
                                                                   COMPARE CHARACTER WITH CONSTANTS.
      05154 0 34000 4 01406 CCOMP
                                                                                                      4F12705
                                    TXL BUILD.0
D
      05155 -3 00000 0 05160
                                                                   IF EQUALITY IS FOUND ON SOME
                                                                                                      4F12706
      05156 0 02000 4 00000 CEXIT
                                    TRA #*,4
                                                                * CONTROL CHAR, EXIT TO TRA LIST.
                                                                                                      4F12707
                                    TIX CCOMP,4,1
                                                                  CONTINUE THROUGH PUNCTUATION.
                                                                                                      4F12708
      05157 2 00001 4 05154
                                                                  BUILD A
      05160 -0 53400 4 05637
                              BUILD LXD CSJ,4
                                                                                                      4F12709
                                                                  SYMBOL
      05161 0 60100 4 07316
                                    STO. CHR . 4
                                                                                                      4F12710
                                                                  COMPOSED OF
      05162 -2 00001 4 05167
                                    TNX LCT,4,1
                                                                                                      4F12711
                                                                  SIX OR LESS CHARACTERS.
      05163 0 76700 2 00044
                                    ALS 36,2
                                                                                                      4F12712
                                    SXD CSJ.4
                                                                  SAVE SYMBOL CHARACTER COUNT.
      05164 -0 63400 4 05637
                              CSZ
                                                                                                      4F12713
                                    ORS SYM
                                                                  ALSO, SAVE EACH
      05165 -0 60200 0 07404
                                                                                                      4F12714
                                    TXI NXC+2+6
                                                                  CHARACTER SEPARATELY.
                                                                                                      4F12715
      05166 1 00006 2 05152
      05167 -3 00044 2 05171 LCT
                                    TXL LCS, 2, 36
                                                                  GO TO DIAGNOSTIC IF
                                                                                                      4F12716
                                                                * MORE THAN 6 CHARACTERS IN SYMBOL.
                                    TSX DIAG+4
                                                                                                     4F12717
      05170 0 07400 4 03400
                                                                  ADJUST COUNT, AND CONTINUE SCAN.
      05171 1 77777 4 05164 LCS
                                    TXI CSZ,4,-1
                                         END OF PROGRAM RSC.
                                                                                                      4F12719
                                        -----
                                                                                  * * * * * * * * * * *4F12720
                                                                                                     4F12721
                                        LISTR/ CONTROL TRANSFERS FOR LIST SCAN=
                                                                                                     4F12722
                                    TXI EMK+0
                                                                * ENDMARK
                                                                                                     4F12723
      05172 1 00000 0 05547
D
                                                                # (
      05173
            1 00000 0 05205
                                    TXI LPR.O
                                                                                                     4F12724
                                    TXI CMA+0
      05174
            1 00000 0 05413
                                                                                                     4F12725
                                                                * )
      05175 1 00000 0 05377
                                    TXI RPR + 0
                                                                                                     4F12726
                                                                                                     4F12727
                                    TXI EQS+0
      05176
            1 00000 0 05261
                                    TXI ILC.0
                                                                  - (ILLEGAL CHARACTER IN I/O LIST). 4F12728
D
      05177
            1 00000 0 05200
                                    TSX DIAG • 4
                                                                * / (ILLEGAL CHARACTER IN I/O LIST). 4F12729
      05200
             0 07400 4 03400 ILC
                                                                  . (ILLEGAL CHARACTER IN I/O LIST). 4F12730
                                    TXI ILC.0
D
      05201 1 00000 0 05200
                                                                  + (ILLEGAL CHARACTER IN I/O LIST). 4F12731
      05202 1 00000 0 05200
                                    TXI ILC+0
                                                                  * (ILLEGAL CHARACTER IN I/O LIST). 4F12732
                                  · TXI ILC+0
D
      05203 1 00000 0 05200
                              LISTR PZE LISTR
                                                                  INDEXING ADDRESS FOR ABOVE LIST.
      05204 0 00000 0 05204
                                                            4F12735
                                        LPR/ CALLS=TYP+SS000+RA000+C0190+TEST...+LTMSW+CIT+JIF+DIAG+
                                                                                                     4F12736
                                        BSS. USES=CMA,RSC.
                                                                                                     4F12737
                                        LPR = ENTRY POINT TAKEN WHEN LPAREN IS MET IN LIST SCAN.
                                                                                                     4F12738
      05205 -0 50000 0 07404 LPR
                                    CAL SYM
                                                                  TEST FOR SUBSCRIPT OR DO NEST.
                                                                                                     4F12739
                                                                  IF SUBSCRIPT, THEN
                                                                                                     4F12740
      05206 0 10000 0 05230
                                    TZE LPRD
                                                                * IF VARIABLE SYMBOL CONTAINS LESS
      05207 0 07400 4 05624
                                    TSX TYP.4
                                                                                                     4F12741
                                                                  THAN 6 CHARACTERS, ADD A BLANK.
      05210 0 02000 4 00003
                                    TRA 3,4
                                                                                                     4F12742
                                    TXI ERRC • 0
                                                                * ON CONSTANT RETURN, GO TO DIAG.
                                                                                                     4F12743
D.
      05211 1 00000 0 05416
                                    CAL SYM
                                                                  MOVE SYMBOL
                                                                                                     4F12744
      05212 -0 50000 0 07404
      05213 0 60200 0 01130
                                                                  INTO E+2, AND
                                    SLW E+2
                                                                                                     4F12745
      05214 0 60200 0 07403
                                    SLW SA
                                                                  COMPILE SYMBOLIC ADDRESS.
                                                                                                     4F12746
                                                                * GO SCAN AND PROCESS SUBSCRIPT.
                                    TSX $5000+4
                                                                                                     4F12747
            0 07400 4 02614
      05215
      05216 0 07400 4 02437
                                    TSX RA000,4
                                                               * THEN GO COMPUTE RELATIVE ADDRESS.
                                                                                                    4F12748
                                                                * EXAMINE NEXT NON-BLANK CHARACTER
      05217 0 07400 4 01707
                                    TSX C0190,4
                                                                                                     4F12749
            0 34000 0 01377
                                    CAS CLOS
                                                                                                     4F12750
      05220
      05221 0 02000 0 05226
                                    TRA *+5
                                                                                                     4F12751
      05222 0 02000 0 05224
                                    TRA *+2
                                                                                                     4F12752
                                    TRA *+3
                                                                                                    4F12753
      05223
            0 02000 0 05226
      05224 0 60000 0 07400
                                    STZ DOLEV
                                                                                                    4F12754
                                    TSX C0190,4
                                                                                                    4F12755
      05225 0 07400 4 01707
      05226 0 07400 4 03247
                                    TSX TESTAO,4
                                                               * FOR EITHER COMMA OR ENDMARK.
                                                                                                    4F12756
                                                               * AND CONTINUE BY USING PROGRAM CMA. 4F12757
      05227 1 00000 0 05421
                                    TXI CMA7 +0
D
                                                                IF THE BEGINNING OF A DO NEST:
      05230 -0 50000 0 07400 LPRD
                                    CAL DOLEV
                                                                                                    4F12758
```

2)

```
AND DOLEV IS NOT ZERO, THEN
                                                                                                   4F12759
                               TZE LPR3
      0 10000 0 05242
                                                              TEST FOR NULL FORMULA.
                                                                                                   4F12760
                               LXA DOLEV:4
      0 53400 4 07400
                                                                                                   4F12761
                                                              IF NULL, GO ESTABLISH POSITION.
                               TXL LPRE,4,0
05233 -3 00000 4 05236
                                                                                                   4F12762
                                                            * OTHERWISE, COMPILE LTM, AND
                               TSX LTMSW+4
       0 07400 4 05757
05234
                                                                                                   4F12763
                                                              AND GO JUMP IFN.
                               TXI LPR4.0
      1 00000 0 05241
05235
                                                              IF C(SL) DO NOT = 0,
                                                                                                   4F12764
                               CAL SL
05236 -0 50000 0 01367
                                                                                                   4F12765
                                                              THEN
      0 10000 0 05241
                               TZE *+2
05237
                                                            * GO COMPILE= IFN BSS O.
                                                                                                   4F12766
                               TSX BSS+2
      0 07400 2 05674
05240
                                                                                                   4F12767
                                                            * GO JUMP IFN. AND SET SL AND TL.
                               TSX JIF+4
05241 0 07400 4 02372 LPR4
                                                                                                   4F12768
                                                              INCREASE THE CIDOLEV DI
                               LXD DOLEV.4
05242 -0 53400 4 07400 LPR3
                                                                                                   4F12769
                                                              BY 1. AND
                               TXI LPR1,4,1
      1 00001 4 05244
05243
                                                                                                   4F12770
                                                              SET THE CIDOLEV A)
05244 -0 75400 4 00000 LPR1
                               PXD 94
                                                                                                   4F12771
                                                              TO ZERO.
                               SLW DOLEV
      0 60200 0 07400
                                                                                                   4F12772
                               CAL TLINE
                                                              NOTE AT
05246 -0 50000 0 01372
                                                              THIS LEVEL
                                                                                                   4F12773
                               STA LPR2
      0 62100 0 05254
05247
                                                                                                   4F12774
                                                              THE LOCATION IN TLDO
                               STO DOLEV+4
      0 60100 4 07400
05250
                                                              OF THIS DO FORMULA
                                                                                                   4F12775
                               ADD L(5)
05251
      0 40000 0 01413
                                                                                                   4F12776
                                                              AND INCREASE LINE IN TLINE.
                               STA TLINE
       0 62100 0 01372
05252
                                                              MOVE -(0(1FN)0(248)) INTO THE
                                                                                                   4F12777
                               CLS TL
      0 50200 0 01371
05253
                                                              LOCATION WORD OF CURRENT TEMP DO.
                                                                                                  4F12778
      0 60100 0 00000 LPR2
                               STO **
05254
                                                            * GO JUMP IFN. AND SET SL AND TL.
                                                                                                   4F12779
                               TSX JIF+4
05255 0 07400 4 02372
                                                                                                   4F12780
                                                              IF 3 OR FEWER LEVELS IN LIST DO.
                               LXD DOLEV.4
05256 -0 53400 4 07400
                                                                                                   4F12781
                                                            * RETURN TO LIST SCAN.
                               TXL NXS+4+3
05257 -3 00003 4 05147
                                                            * OTHERWISE, GO TO DIAGNOSTIC.
                                                                                                   4F12782
05260 0 07400 4 03400
                               TSX DIAG+4
                                                                                                   4F12783
                                    END OF PROGRAM LPR.
                                                                                                 *4F12784
                                                                                                   4F12785
                                                                                                   4F12786
                                   EQS/ CALLS=DIAG. USES=RSC.
                                   EQS = ENTRY POINT WHEN EQUAL SIGN IS MET IN LIST CAN.
                                                                                                   4F12787
                                                              TEST THE LEGALITY OF EQUAL SIGN.
                                                                                                   4F12788
05261 -0 53400 4 07400 EQS
                               LXD DOLEV.4
                                                              AND GO TO DIAG ON THE ATTEMPT TO
                                                                                                  4F12789
05262 3 00000 4 05264
                               TXH EQS2,4,0
                                                            * SPECIFY SUBSCRIPT RANGE WITHOUT (. 4F12790
                               TSX DIAG,4
      0 07400 4 03400
                                                                                                  4F12791
                                                              INITIALIZE SPECIFICATION
                               CAL DOLEV,4
05264 -0 50000 4 07400 EQS2
                                                                                                   4F12792
                                                              OF GENERATED DO FORMULA
                               STA SPC2
      0 62100 0 05331
05265
                                                              AT CURRENT LEVEL.
                                                                                                  4F12793
                               STA SPC5
      0 62100 0 05345
05266
                                                              PREPARE TO ENTER FORMULA NUMBERS
                                                                                                  4F12794
                               ADD L(1)
05267
      0 40000 0 01407
                                                                                                   4F12795
                                                              IN LOCATION WORD + SUBSCRIPT IN
                               STA EQS1
       0 62100 0 05302
05270
                                                              SYMBOL WORD, AND SUBSCRIPT SPECS
                                                                                                  4F12796
                               ADD L(4)
       0 40000 0 01412
05271
                                                              IN TEMPDO ENTRY.
                                                                                                   4F12797
                               STA SPC3
       0 62100 0 05333
05272
                                                              PREPARE TO COUNT THE
                                                                                                  4F12798
       0 53400 4 01411
                               LXA L(3),4
05273
                                                              NUMBER OF SPECIFICATIONS.
                                                                                                  4F12799
05274 -0 63400 4 05304
                               SXD NSJ.4
                                                                                                  4F12800
                                                              OBTAIN SUBSCRIPT
                               CAL SYM
05275 -0 50000 0 07404
                                                                                                  4F12801
                                                              FOR THIS DO, AND
      3 00044 2 05302
                               TXH EQS1,2,36
05276
                                                              STORE IN PROPER
                                                                                                   4F12802
                               CAL BLANK
05277 -0 50000 0 01430
                                                                                                  4F12803
                                                              LINE OF TEMPORARY
      0 76700 2 00044
                               ALS 36+2
                                                              LIST DO TABLE.
                                                                                                  4F12804
                               ORA SYM
05301 -0 50100 0 07404
                                                              (SUBSCRIPT SYMBOL WORD)
                                                                                                  4F12805
      0 60200 0 00000 EQS1
                               SLW **
05302
                                                              SET CONTROL LOOP FOR
                                                                                                  4F12806
                               CAL SPCTR
05303 -0 50000 0 05317
                                                                                                  4F12807
                                                            * EXIT TO SPECIFICATION
                               TXI CXS,0,**
      1 00000 0 05146 NSJ
                                    END OF PROGRAM EQS.
                                                                                                 *4F12809
                                                                                                  4F12810
                                                                                                  4F12811
                                   SPCTR/ CONTROL TRANSFERS FOR SPECIFICATION SCAN=
                                                            * E (ILLEGAL IN CONTROL FOR LIST DO) +4F12812
                               TSX DIAG:4
05305 0 07400 4 03400
```

D

```
* ( (ILLEGAL IN CONTROL FOR LIST DO) 4F12813
                                     TSX DIAG.4
      05306 0 07400 4 03400 ICC
                                     TXI SPC . 0
      05307 1 00000 0 05322
                                                                  # }
                                     TXI SPCX.0
      05310 1 00000 0 05320
                                                                    = (ILLEGAL IN CONTROL FOR LIST DO).4F12816
                                     TXI ICC.0
      05311 1 00000 0 05306
                                                                  - (ILLEGAL IN CONTROL FOR LIST DOI+4F12817
                                     TXI ICC.0 - (ILLEGAL IN CONTROL FOR LIST DO].4F12817

TXI ICC.0 / (ILLEGAL IN CONTROL FOR LIST DO).4F12818

TXI ICC.0 . (ILLEGAL IN CONTROL FOR LIST DO).4F12819

TXI ICC.0 + (ILLEGAL IN CONTROL FOR LIST DO).4F12820

TXI ICC.0 + (ILLEGAL IN CONTROL FOR LIST DO).4F12821

PZE SPCTR INDEXING ADDRESS FOR ABOVE LIST. 4F12822
      05312 1 00000 0 05306
      05313 1 00000 0 05306
      05314 1 00000 0 05306
      05315 1 00000 0 05306
      05316. 1 00000 0 05306
D
      05317 0 00000 0 05317 SPCTR PZE SPCTR
                                         4F12824
                                         SPC/ CALLS=TYP+LTMSW+JIF+TETOO. USES=RSC.
                                         SPCX = ENTRY POINT WHEN RPAREN IS MET IN SPECIFICATION SCAN. 4F12826
                                                                    PREPARE FOR END OF SPECIFICATION. 4F12827
                                     CAL SPC1
      05320 -0 50000 0 05336 SPCX
                                                                    SET SPC1 OP-SWITCH TO NOP CASE.
                                                                                                         4F12828
                                     STO SPC1
      05321 0 60100 0 05336
                                         SPC = ENTRY POINT WHEN COMMA IS MET IN SPECIFICATION SCAN.
                                                                                                         4F12829
                                                                  * GO TEST TYPE OF SUBSCRIPT SPEC.
                                                                                                         4F12830
                                     TSX TYP.4
      05322 0 07400 4 05624 SPC
                                                                                                         4F12831
                                                                    IF FIXED POINT CONSTANT,
                                     TXI SPCS.0
      05323 1 00000 0 05326
D
                                                                    SET C(XR4) = SPECIFICATION COUNT. 4F12832
                                     LXD NSJ+4
      05324 -0 53400 4 05304
                                                                                                         4F12833
                                                                    AND GO ENTER CONSTANT IN TABLE.
                                     TXI SPC3+0
      05325 1 00000 0 05333
                                                                    OTHERWISE, SET SPEC COUNT AND
                                                                                                         4F12834
      05326 -0 53400 4 05304 SPCS LXD NSJ.4
                                                                                                         4F12835
                                                                    IF VARIABLE, NOTE BY
                                     CAL TAG4
      05327 -0 50000 0 01453
                                                                    PLACING BIT IN TAG FIELD
                                                                                                         4F12836
                                     ARS 3,4
      05330 0 77100 4 00003
                                                                                                         4F12837
      05331 -0 60200 0 00000 SPC2 ORS **
                                                                    OF TABLE ENTRY.
                                                                    PICKUP VARIABLE SYMBOL AND
                                                                                                         4F12838
                                     CAL SYM
      05332 -0 50000 0 07404
                                                          REDUCE JO

SAVE SPEC COUNTS AND

* EXIT TO SCANS IF SWITCH IS TXLO

SET N SUB 3 = 1 IF NOT
                                                                                                         4F12839
                                     SLW **,4
      05333 0 60200 4 00000 SPC3
                                     TNX SPC4,4,1
                                                                                                         4F12840
      05334 -2 00001 4 05341
                                                                                                         4F12841
                                     SXD NSJ+4
      05335 -0 63400 4 05304
                                                                                                         4F12842
                                     TXL NXS.0
      05336 -3 00000 0 05147 SPC1
Đ
                                                                                                         4F12843
                                     CAL L(1)
      05337 -0 50000 0 01407
                                                                    OTHERWISE SPECIFIED.
                                                                                                         4F12844
                                     TXI SPC3.0
      05340 1 00000 0 05333
D
                                                                    RESTORE SPC1 EXIT.
                                                                                                         4F12845
                                     CLS SPC1
      05341 0 50200 0 05336 SPC4
                                                                  (3 SPECS HAVE BEEN TREATED)
                                                                                                         4F12846
                                     STO SPC1
      05342 0 60100 0 05336
                                                                    ALSO RESTORE INTERNAL FORMULA NO. 4F12847
                                     CAL EIFNO
      05343 -0 50000 0 00030
                                                                    (PUT BETA IN TEMPDO TABLE)
                                                                                                         4F12848
                                     ARS 18
      05344 0 77100 0 00022
                                                                                                         4F12849
                                         SPC5 = ENTRY POINT USED BY RPR.
                                                                    SET BETA EQUAL TO IFNO.
                                                                                                         4F12850
                                     STA **
      05345 0 62100 0 00000 SPC5
                                                                    EXAMINE DOLEY ADDRESS FOR ZERO TO 4F12851
                                     LXA DOLEV+4
      05346 0 53400 4 07400
                                                                                                         4F12852
                                                                    TEST NEED FOR LTM, JIF AFTER 1.
                                     TXL SPCR+4+0
      05347 -3 00000 4 05352
                                                             * GO COMPILE LTM.

* GO JUMP IFN, AND SET SL AND TL.
                                                                                                         4F12853
                                     TSX LTMSW+4
      05350 0 07400 4 05757
                                                                                                         4F12854
                                     TSX J1F,4
      05351 0 07400 4 02372
                                     TSX JIF94
LXD DOLEV,4

TXI SPC6,49-1

PXD 94

THEN ALL LEVE
                                                                                                         4F12855
                                                                    DECREASE DOLEY D
      05352 -0 53400 4 07400 SPCR
                                                                    BY 1, AND INDICATE A TREATED LEVEL.4F12856
      05353 1 77777 4 05354
                                                                                                         4F12857
      05354 -0 75400 4 00000 SPC6 PXD +4
                                                                  THEN ALL LEVELS ARE NOT TREATED.
                                                                                                         4F12858
                                     SLW DOLEV
      05355 0 60200 0 07400
                                                              * RETURN TO SCAN NEXT LEVEL.
                                                                                                         4F12859
                                     TXH LSC,4,0
      05356 3 00000 4 05145
                                                                                                         4F12860
                                                                 IF LEVEL IS ZERO
                                     CLA TLINE
      05357 0 50000 0 01372
                                                                                                         4F12861
                                                                 ENTER GENERATED
                                     STA SPC7
      05360 0 62100 0 05364
                                                              DO FORMULAS IN TOO BY
                                                                                                         4F12862
      05361 0 73400 2 07405 FLINE PAX TLDOS:2
                                                                                                         4F12863
                                     TXI *+1,2,-TLDOS
                                                                  SUBROUTINE TET.
      05362 1 70373 2 05363
                                                                                                         4F12864
                                                                  (MOVE EACH
                                     LXA L(5) +4
      05363 0 53400 4 01413 SPC9
                                                                  TEMPDO TABLE ENTRY
                                                                                                         4F12865
      05364 0 50000 2 00000 SPC7
                                     CLA ** • 2
                                                                                                         4F12866
                                                                    INTO 1C++++
                                     STO 1C+5,4
      05365 0 60100 4 01112
```

```
AND THEN WHEN DONE.
                                                                                                    4F12867
                               TNX SPC8 + 2 + 1
05366 -2 00001 2 05370
                                                                                                    4F12868
05367 2 00001 4 05364
                               TIX SPC7,4,1
                                                                                                    4F12869
                                                             TEST TO SKIP
      0 53400 4 01105 SPC8 LXA 1C+4
                                                                                                    4F12870
                                                            NULL DO.
                               TXL SPCT +4+0
05371 -3 00000 4 05374
                                                            * GO MAKE AN ENTRY
                                                                                                    4F12871
                               TSX TETOO,1
05372 0 07400 1 03321
                                                                                                  4F12872
                                                             IN TOO TABLE. IAND WHEN THE WHOLE
                               PZE 1
       0 00000 0 00001
                                                               DO NEST HAS BEEN ENTERED.
                                                                                                    4F12873
      3 00001 2 05363 SPCT
                               TXH SPC9,2,1
05374
                                                                                                    4F12874
                                                             * GO JUMP IFN. AND SET SL AND TL.
                               TSX JIF,4
05375 0 07400 4 02372
                                                             * THEN EXIT TO CONTINUE LIST SCAN.
                                                                                                    4F12875
05376 1 00000 0 05141 RESET TXI RSC+0
                                                                                                    4F12876
                                    END OF PROGRAM SPC.
                                                                                                * *4F12877
                                                                                                    4F12878
                                                                                                    4F12879
                                    RPR/ CALLS=DIAG. USES=CMA.SPC.
                                                                                                    4F12880
                                    RPR = ENTRY POINT WHEN RPAREN IS MET IN LIST SCAN.
                                                               TEST LEGALITY OF ).
                                                                                                    4F12881
                               LXD DOLEV+4
05377 -0 53400 4 07400 RPR
                                                             IF THERE ARE TOO MANY ) IN LIST,
                                                                                                    4F12882
                               IF THERE ARE TOO MANY ) IN LI
TSX DIAG.4

CAL DOLEV.4

STA SPC5

CLA RPA

STA CMA3

TXH CMA1.2.6

IF THERE ARE TOO MANY ) IN LI
GO TO THE DIAGNOSTIC.

NULLIFY DO AT CURRENT LEVEL.

SET SPC5 ADDRESS.

SET CMA3 SWITCH TO RETURN TO
RPT. AND IF ANY CHARACTERS

WERE COLLECTED. EXIT TO CMA.
                               TXH RPS+4+0
05400 3 00000 4 05402
                                                             * GO TO THE DIAGNOSTIC.
05401 0 07400 4 03400
                                                                                                    4F12884
05402 -0 50000 4 07400 RPS
                                                                                                    4F12885
05403 0 62100 0 05345
                                                                                                    4F12886
05404 0 50000 0 05411
                                                                                                    4F12887
05405 0 62100 0 05546
                                                                                                    4F12888
05406 3 00006 2 05414
                                                                                                    4F12889
                                   RPT = REENTRY POINT USED BY CMA.
                                                                                                    4F12890
                                                               RESET CMA3 SWITCH
05407 0 50000 0 05336 RPT
                               CLA SPC1
                                                               TO NXS+
                               STA CMA3
                                                              CLEAR THE AC+ AND
05410 0 62100 0 05546
                                                                                                    4F12892
                               PXD RPT+0
05411 -0 75400 0 05407 RPA
                                                             * CONTINUE BY USING PROGRAM SPC.
                                                                                                    4F12893
                               TXI SPC5 +0
05412 1 00000 0 05345
                                    END OF PROGRAM RPR.
                                                                                                    4F12896
                                   CMA/ CALLS=TYP.DIAG.ETMSW.DIM.SR.FFFIX.TET00.DRTABS.JIF.CIT. 4F12897
                                    LTMSW. USES=RSC.
                                    CMA = ENTRY POINT WHEN COMMA IS MET IN LIST SCAN.
                                                                                                    4F12899
                                                             * IF NOTHING COLLECTED. RETURN -SCAN.4F12900
                                TXL NXC,2,6
05413 -3 00006 2 05152 CMA
                                   CMA1 = ENTRY POINT USED BY EMK.
                                                             * TYPE TEST FOR NON-SUBSCR. VAR.
                                                                                                    4F12902
                               TSX TYP+4
05414 0 07400 4 05624 CMA1
                                                               ILLEGAL USE OF CONSTANT IN LIST.
                                                                                                    4F12903
                                TRA 3.4
05415 0 02000 4 00003
                                                                                                    4F12904
                                                             * GO TO THE DIAGNOSTIC.
05416 0 07400 4 03400 ERRC
                               TSX DIAG +4
                                                                                                    4F12905
                                                               MOVE VARIABLE SYMBOL
                               CAL SYM
05417 -0 50000 0 07404
                                                                                                    4F12906
                                                               INTO SA. AND
                               SLW SA
05420 0 60200 0 07403 CMA4
                                   CMA7 = ENTRY POINT USED BY LPR.
                                                                                                    4F12907
                                                               IF DOLEY ADDRESS = 0, AND IF
                                                                                                    4F12908
                               LXA DOLEV.4
05421 0 53400 4 07400 CMA7
                                                                                                    4F12909
                                                               ETMSW IS SET TO TXH (NOP CASE),
                                TXH CMA6,4,0
05422 3 00000 4 05424
                                                                                                    4F12910
                                                             * GO COMPILE ETM, AND CLEAR SL.
                               TSX ETMSW+4
05423 0 07400 4 05754
                                                                                                    4F12911
                                                               IN ANY CASE,
05424 -0 50000 0 07400 CMA6
                               CAL DOLEV
                                                               UPDATE DOLEY ADDRESS
                                                                                                    4F12912
                               ADD L(1)
05425 0 40000 0 01407
                                                                                                    4F12913
                                                               BY 1. AND THEN
                               STO DOLEV
05426 0 60100 0 07400
                                                                                                    4F12914
                                                               SET GENERALIZED TAG.
                               CLA GTAG
05427 0 50000 0 01351
                                                              (RELATIVE ADDRESS)
                                                                                                    4F12915
05430 0 60100 0 07402
                               STO RA
                                                              IF THIS VARIABLE HAS A SUBSCRIPT, 4F12916
                               TZE DIMSR
05431 0 10000 0 05436
                                                              AND IF SUBSCRIPT
IS A CONSTANT:
                                                                                                    4F12917
05432 0 50000 0 01147
                               CLA EPS
                                                                                                    4F12918
                                                               IS A CONSTANT:
                               TNZ CMA5
05433 -0 10000 0 05537
                                                               THEN CLEAR THE ADDRESS OF RA.
                                                                                                    4F12919
                               STA RA
05434 0 62100 0 07402
                                                                                                    4F12920
                                                               THEN GO MAKE CIT ENTRY.
                               TXI CMA5+0
05435 1 00000 0 05537
```

	05436 ~	-0	50000	0	07403	DIMSR	CAL	SA			IF THIS VARIABLE	4F12921
	05437	Ö	60200	0	01130		SLW	E+2			DOES NOT HAVE A SUBSCRIPT. THEN	4F12922
	05440	0	07400	4	01771	RD1	TSX	DIM1SR,4		*	GO SEARCH DIM1 TABLE.	4F12923
D .	05441	1	00000	0	05444		TXI	RD2 • 0			IF FOUND, THEN	4F12924
•	05442	0	50000	0	01101	CS1	CLA	D12			PICKUP DIMENSION 1	4F12925
D	05443	1	00000	0	05467		TXI	DVS+0			AND GO TEST SIZE. OTHERWISE.	4F12926
•	05444	Ō	07400	4	01775	RD2	TSX	DIM2SR +4		*	GO SEARCH DIM2 TABLE.	4F12927
D	05445	1	00000	0	05455		TXI	RD3 • 0			AND IF FOUND,	4F12928
•	05446	Õ	56000	0	01101	C\$2	LDQ	D12			PICKUP	4F12929
	05447	0	60000	0	01361		STZ	N2			DIMENSION 1 AND	4F12930
	05450 -	-0	62000	Õ	01361		SLQ	N2			DIMENSION 2	4F12931
	05451 -	-Ò	76300	٥	00022		LGL	18			AND MULTIPLY	4F12932
	05452	ŏ	20000	Õ	01361		MPY	N2			THEM TOGETHER.	4F12933
	05453	õ	77100	ŏ	00001		ARS	1			THEN	4F12934
D	05454	1	00000	0	05467		TXI	DVS+0			GO TEST THE PRODUCT. OTHERWISE,	4F12935
•	05455	ō	07400	4	02005	RD3	TSX	DIM3SR+4		*	GO SEARCH DIM3 TABLE.	4F12936
D	05456	ĭ	00000	Ò	05533		TXI	NODIM.O			AND IF FOUND,	4F12937
•	05457	ō	56000	0	01101	CS3	LDQ	D12			PICKUP	4F12938
	05460	ŏ	60000	ŏ	01361	•	STZ	N2			DIMENSION 1,	4F12939
	05461 -	-ñ	62000	ŏ	01361		SLQ	N2			DIMENSION 2,	4F12940
	05462 -	٠٥	76300	õ	00022		LGL	18			AND DIMENSION 3.	4F12941
	05462	ŏ	20000	ñ	01361		MPY	N2			MULTIPLY	4F12942
	05464	ñ	76500	õ	00022		LRS	18			THEM TOGETHER,	4F12943
	05465	ň	20000	ñ	01102		MPY	D3	~ i ' '		AND IF	4F12944
	05466	ň	76300	ñ	00021		LLS	17			THEIR	4F12945
	05467	ň	40200	ŏ	01407	DVS	SUB	L(1)			PRODUCT IS	4F12946
	05470	ň	10000	ñ	05533		TZF	MIDON			GREATER THAN 1. THEN	4F12947
•	05471	ň	76700	ň	00022		ALS	18			PLACE DIMENSION-1 IN THE	4F12948
	05471	ň	60100	ň	01347		STO	Ğ			DECREMENT OF G. AND	4F12949
,	05472	ň	07400	Ă	00417		TSX	FXCNIX.4		#	GO ENTER IN FIXCON. AND GET TAG.	4F12950
	05474	Š	74700	7	00022		ALS	18			ADJUSTA AND STORE TAG IN THE	4F12951
	05474	ň	62200	ĭ	01364		STD	RAT			DECREMENT OF RAT. THEN	4F12952
	05475	ž	07400	4	02372		TSX	JIF.4		#	GO JUMP IFN. AND SET SL AND TL.	4F12953
	05477	č	07400	7	01731		TSX	CITAL		*	GO MAKE THE FOLLOWING CIT ENTRY=	4F12954
	05500	ŏ	01400	ň	01367		PZE	SL			WORD10(1FN)000	4F12955
	05500	ŏ	00000	ň	01561		PZE	LXD			WORD2-LXD000	4F12956
	05501	ň	00000	ň	01501		PZE	2P			WORD3200000	4F12957
	05502	ň	00000	ň	01364		PZF	RAT			WORD4-0(FIXCON TAG)008	4F12958
	05506	ň	07400	ĭ	02372		TSX	JIF.4		#	GO JUMP IFN. AND SET SL AND TL.	4F12959
	05504	ň	07400	4	05754		TSX	ETMSW-4		#	IF ETMSW = NOP. COMPILE ETM. SL=0.	4F12960
	05505	ř	07400	7	01731		TSX	CITe4		*	GO MAKE THE FOLLOWING CIT ENTRY=	4F12961
	05500	ŏ	00000	7	01367		PZF	Si			WORD1-0(IFN)000 OR 000000	4F12962
	05507	~	00000	Š	07401		PZF	OP			WORD2-(OPERATION CODE)	4F12963
	02210	Ň	00000	ž	07402		PZF	SA			WORD3(SYMBOLIC ADDRESS)	4F12964
	02211	ž	00000	ž	01416		PZF	ST			WORD4000008	4F12965
	05512	×	40000	Š	01710		STZ	SI			CLEAR SL. AND	4F12966
	02213	Ň	07400	Ž	01307		TSX	I TMSW-4		#	IF LIMSW = NOP . COMPILE LIM . SL=0 .	4F12967
	02214	Č	07/00	+	02121		TSY	GIFAA		*	GET IFN IN SL AND TLA	4F12968
	05515	Ň	07400	4	01731		TSY	CITAL		*	GO MAKE THE FOLLOWING CIT ENTRY=	4F12969
	05510	0	00000	7	01/04		PZF	1 (0)			WORD1000000	4E12970
	02211	Š	00000	0	01400		PZE	TIX			WORD2TIX001	4F12971
	U >>20	Ň	00000	v	01363		D75	51			IF THIS VARIABLE DOES NOT HAVE A SUBSCRIPT, THEN GO SEARCH DIMI TABLE. IF FOUND, THEN PICKUP DIMENSION 1 AND GO TEST SIZE. OTHERWISE, GO SEARCH DIMZ TABLE. AND IF FOUND, PICKUP DIMENSION 1 AND DIMENSION 2 AND MULTIPLY THEM TOGETHER. THEN GO TEST THE PRODUCT. OTHERWISE, GO SEARCH DIM3 TABLE. AND IF FOUND, PICKUP DIMENSION 1, DIMENSION 2, AND DIMENSION 3. MULTIPLY THEM TOGETHER, AND IF THEIR PRODUCT IS GREATER THAN 1, THEN PLACE DIMENSION-1 IN THE DECREMENT OF G, AND GO ENTER IN FIXCON, AND GET TAG. ADJUST, AND STORE TAG IN THE DECREMENT OF RAT. THEN GO JUMP IFN, AND SET SL AND TL. GO MAKE THE FOLLOWING CIT ENTRY= WORD1O(IFN)000 WORD2LXD000 WORD4O(IFIXCON TAG)008 GO JUMP IFN, AND SET SL AND TL. IF ETMSW = NOP, COMPILE ETM, SL=0. GO MAKE THE FOLLOWING CIT ENTRY= WORD1O(IFN)000 OR 000000 WORD3(SYMBOLIC ADDRESS) WORD4O00008 CLEAR SL, AND IF LIMSW = NOP, COMPILE LTM. SL=0. GET IFN IN SL AND TL. GO MAKE THE FOLLOWING CIT ENTRY= WORD1O(IFN)000 OR 000000 WORD2IXD00000 WORD2IXD000000 WORD2TIXOO1 WORD3O(IFN)000 WORD3O(IFN)000 WORD3O(IFN)000 WORD3O(IFN)000 WORD3O(IFN)000 WORD3O(IFN)000 WORD3O(IFN)000 WORD4000008 CLEAR SL, AND	4F12972
	05521	Ď	00000	0	01/1/		DZE	ST			WORD4000008	4F12973
	05522	0	00000	0	01410		CTT	S1			CLEAD CLA AND	AF12974
-	05523	0	60000	0	01367		312	3	•		CELUI SEY MILV	7. 16717

```
* IF ETMSW = NOP, COMPILE ETM, SL=0. 4F12975
                                     TSX ETMSW 4
             0 07400 4 05754
      05524
                                                                  * GO MAKE THE FOLLOWING CIT ENTRY=
                                                                                                         4F12976
                                     TSX CIT+4
             0 07400 4 01731
                                                                                                         4F12977
                                                                    WORD1--000000
                                     PZE L(0)
             0 00000 0 01406
                                                                                                         4F12978
                                                                    WORD2--DEDOOD
                                     PZE DED
             0 00000 0 01546
      05527
                                                                                                         4F12979
                                                                    WORD3-000000
                                     PZE L(0)
               00000 0 01406
      05530
                                                                                                         4F12980
                                                                    WORD4--000008
                                     PZE ST
             0 00000 0 01416
      05531
                                                                    IF THE PRODUCT OF DIMENSIONS IS
                                                                                                         4F12981
                                     TXI CMA5 + 0
             1 00000 0 05537
D
      05532
                                                                  # LESS THAN 2, TEST TYPE OF VARIABLE, 4F12982
                               NODIM TSX IFFIX.1
             0 07400 1 05773
      05533
                                                                                                         4F12983
                                                                    AND IF FIXED POINT,
                                     TXI CMA5.0
               00000 0 05537
      05534
                                                                  * GO ENTER VARIABLE IN
                                                                                                         4F12984
                                     TSX TETOO:1
             0 07400 1 03321
      05535
                                                                                                         4F12985
                                                                    EITHER FORVAL OR FORVAR TABLE.
                               INOUT PZE **
             0 00000 0 00000
      05536
                                                                  * GO MAKE THE FOLLOWING CIT ENTRY=
                                                                                                         4F12986
                                     TSX CIT+4
             0 07400 4 01731 CMA5
      05537
                                                                                                         4F12987
                                                                    WORD1--0(IFN)000 OR 000000
                                     PZE SL
             0 00000 0 01367
      05540
                                                                                                         4F12988
                                                                    WORD2--NTROOD OR CPY000
                                     PZE OP
             0 00000 0 07401
      05541
                                                                                                         4F12989
                                                                    WORD3--(SYMBOL)
                                     PZE SA
             0 00000 0 07403
      05542
                                                                                                         4F12990
                                                                  WORD4--(RELATIVE ADDRESS)
                                     PZE RA
             0 00000 0 07402
      05543
                                                                                                         4F12991
                                                                    CLEAR SL. AND
             0 60000 0 01367
                                     STZ SL
      05544
                                                                    CLEAR GTAG. THEN TAKE EXIT
                                                                                                         4F12992
                                     STZ GTAG
             0 60000 0 01351
      05545
                                                                                                         4F12993
                                                                  * SWITCH TO RPT OR NXS.
                                     TXI NXS.0
             1 00000 0 05147 CMA3
      05546
                                                                                                         4F12994
                                          END OF PROGRAM CMA.
                                                                                                        *4F12995
                                                                                                         4F12996
                                                                                                         4F12997
                                         EMK/ CALLS=DIAG, LTMSW, JIF, CIT, LIB, TETOO. USES=CMA.
                                         EMK = ENTRY POINT WHEN AN ENDMARK IS MET IN LIST SCAN.
                                                                                                         4F12998
                                                                  * IF NO CHARACTERS REMAIN. THEN
                                                                                                         4F12999
                                     TXH CMA1,2,6
      05547 3 00006 2 05414 EMK
                                                                                                         4F13000
                                                                    CHECK THE NUMBER OF PARENTHESES.
                                     LXD DOLEV+4
      05550 -0 53400 4 07400
                                                                    IF THERE ARE TOO MANY LPARENS.
                                                                                                         4F13001
                                     TXL FIN:4:0
      05551 -3 00000 4 05553
                                                                                                         4F13002
                                                                  # GO TO THE DIAGNOSTIC. OTHERWISE.
                                     TSX DIAG.4
             0 07400 4 03400
      05552
                                                                  # IF LTMSW = NOP, COMPILE LTM. SL=0. 4F13003
                                     TSX LTMSW+4
             0 07400 4 05757 FIN
      05553
                                                                  * GO JUMP IFN, AND SET SL AND TL.
                                                                                                         4F13004
                                     TSX JIF,4
             0 07400 4 02372
      05554
                                         LAST = ENTRY POINT SET BY BXT SWITCH.
                                                                                                         4F13005
                                                                  # GO MAKE THE FOLLOWING CIT ENTRY=
                                                                                                         4F13006
                                     TSX CIT+4
             0 07400 4 01731 LAST
      05555
                                                                                                         4F13007
                                                                    WORD1-0(IFN)000
                                     PZE SL
             0 00000 0 01367
      05556
                                                                                                         4F13008
                                                                    WORD2--CALOOO
                                     PZE CAL
             0 00000 0 01537
      05557
                                                                                                         4F13009
                                                                    WORD3---*00000
                                     PZE 15P
             0 00000 0 01510
      05560
                                                                                                         4F13010
                                                                    WORD4--000000
                                     PZE L(0)
             0 00000 0 01406
      05561
                                                                  * MAKE CLOSUB ENTRY, AND COMPILE=
                                                                                                         4F13011
                                     TSX LIB.4
             0 07400 4 06023
      05562
                                                                                                         4F13012
                                                                    WORD1--000000
                                     PZE L(0)
             0 00000 0 01406
      05563
                                                                    WORD2--XITOOO
                                                                                                         4F13013
                                     PZE XIT
             0 00000 0 06125
      05564
                                                                                                         4F13014
                                                                    WORD3--(RTN) OR (FIL)
                                     PZE END
             0 00000 0 06141
      05565
                                                                                                         4F13015
                                                                    WORD4--000000
                                     PZE L(0)
             0 00000 0 01406
      05566
                                                                                                         4F13016
                                         FINI = ENTRY POINT USED BY EFT.
                                                                                                         4F13017
                                                                    RESET BXT SWITCH
                                     CLA RESET
             0 50000 0 05376 FINI
      05567
                                                                                                         4F13018
                                                                    TO RSC.
                                     STA BXT
             0 62100 0 04744
      05570
                                                                    TEST FOR AN EXTERNAL
                                                                                                         4F13019
                                     CLA F-1
      05571
             0 50000 0 01151
                                                                    STATEMENT NUMBER, AND IF NONE,
                                                                                                         4F13020
                                     SUB 5BLANS
             0 40200 0 01477
      05572
                                                                  * EXIT TO PROCESS NEXT STATEMENT.
                                                                                                         4F13021
                                     TZE CAO10
      05573
             0 10000 0 03440
                                                                                                         4F13022
                                                                    OTHERWISE. SET THE SIGN
                                     CAL MINUSO
      05574 -0 50000 0 01520
                                                                    OF EIFNO TO MINUS. AND
                                                                                                         4F13023
                                     ORS EIFNO
      05575 -0 60200 0 00030
                                                                                                         4F13024
                                                                  * GO ENTER -(EIFNO)
             0 07400 1 03321
                                     TSX TETOO:1
                                                                    IN THE TEIFNO TABLE.
                                                                                                         4F13025
                                     PZE 0
      05577 0 00000 0 00000
                                                                                                         4F13026
                                                                    THEN RESTORE
                                     CAL EIFNO
      05600 -0 50000 0 00030
                                                                                                         4F13027
                                                                    EIFNO, AND
                                     STO EIFNO
            0 60100 0 00030
                                                                  * EXIT TO PROCESS NEXT STATEMENT.
                                                                                                         4F13028
                                     TXI CA010.0
      05602 1 00000 0 03440
```

```
END OF PROGRAM EMK.
                                                                                           * * * *4F13030
                                                                                                  4F13031
                                   STATEA/4-SUBROUTINES USED BY STATE A=
                                                                                                  4F13032
                                   BEG(TYP),4/ CALLS=DIAG. USES RSC.
                                                                                                  4F13034
                                   BEG = ENTRY POINT USED BY RDC.RIT.WOT.EFT.
                                                                                                  4F13035
                               SXD BEX+4
CAL BEGTR
05603 -0 63400 4 05605 BEG
                                                              SAVE C(XR4) FOR RETURN,
                                                                                                  4F13036
                                                            SET CONTROL TRANSFER
05604 -0 50000 0 05620
                               TXI CXS.0.**
                                                        * AND GO EXECUTE BEGINNING SCAN.
                                                                                                  4F13038
05605 1 00000 0 05146 BEX
                                   BEGTR/ CONTROL TRANSFERS FOR BEGINNING SCAN=
                                                            * ENDMARK (NO LIST SCAN)
05606
      1 00000 0 05621
                               TXI NLS+0
                                                                                                  4F13042
                                                            * ( (ILLEGAL CHARACTER IN I/O SETUP) 4F13043
                               TSX DIAG,4
05607 0 07400 4 03400 IBC
                               TXI CMB .O.
05610 1 00000 0 05623
                                               | (ILLEGAL CHARACTER IN I/O SETUP) • 4F13046

= (ILLEGAL CHARACTER IN I/O SETUP) • 4F13047

| (ILLEGAL CHARACTER IN I/O SETUP) • 4F13048

• (ILLEGAL CHARACTER IN I/O SETUP) • 4F13049

+ (ILLEGAL CHARACTER IN I/O SETUP) • 4F13050

+ (ILLEGAL CHARACTER IN I/O SETUP) • 4F13051

INDEXING ADDRESS FOR ABOVE LIST • 4F13052
                                                         ) (ILLEGAL CHARACTER IN I/O SETUP) 4F13045
05611 1 00000 0 05607
                               TXI IBC . 0
                               TXI IBC.0
05612 1 00000 0 05607
                              TXI IBC.0
05613 1 00000 0 05607
                              TXI IBC • 0
05614 1 00000 0 05607
05615 1 00000 0 05607
                             TXI IBC+0
                              TXI IBC.0
      1 00000 0 05607
05616
                             TXI IBC.0
05617 1 00000 0 05607
05620 0 00000 0 05620 BEGTR PZE BEGTR
                                   4F13054
                                   NLS = ENTRY POINT WHEN AN ENDMARK IS MET IN BEGINNING SCAN. 4F13055
                                                              IF ENDMARK IS MET.
05621 0 50000 0 06105 NLS
                               CLA NLA
                                                                                                 4F13056
                                                              SET BXT SWITCH TO LAST.
05622 0 62100 0 04744
                               STA BXT
                                                                                                 4F13057
                                   CMB = ENTRY POINT WHEN A COMMA IS MET IN BEGINNING SCAN.
                                                                                                 4F13058
                               LXD BEX.4
                                                              RESTORE THE C(XR4), AND
                                                                                                 4F13059
05623 -0 53400 4 05605
                                   TYP = ENTRY POINT USED BY LPR+SPC+CMA.
                                                                                                 4F13060
                               CLA CHR-6
                                          TEST FIRST CHARACTER
                                                                                                 4F13061
05624 0 50000 0 07310 TYP
                               SUB PLUS
                                                             FOR VARIABLE
                                                                                                 4F13062
·05625 0 40200 0 01404
                              TMI ABS
                                                            OR CONSTANT.
                                                                                                 4F13063
05626 -0 12000 0 05634
                                                         IF VARIABLE.
05627 3 00044 2 05633
                              TXH SMB . 2 . 36
                                                                                                 4F13064
                                                    ADD A BLANK

IF SYMBOL CONTAINS

LESS THAN 6 CHARACTERS, AND
                              CAL BLANK
                                                                                                 4F13065
05630 -0 50000 0 01430
                             ALS 36+2
05631 0 76700 2 00044
                                                                                                 4F13066
                              ORS SYM
                                                                                                 4F13067
05632 -0 60200 0 07404
05633 0 02000 4 00001 SMB
                              TRA 1.4
                                                         * TAKE VARIABLE EXIT TO CALLER.
                                                                                                 4F13068
                                                      IF CONSTANT,
THEN
CONVERT
BCD
DIGITS
TO THEIR
BINARY
EQUIVALENT.
      0 53400 2 01413 ABS
                              LXA L(5) •2
                                                                                                 4F13069
                              CLA CHR-1.2
05635 0 50000 2 07315
                                                                                                 4F13070
                              STO BIN
                                                                                                 4F13071
05636 0 60100 0 07307
05637 -3 00000 2 05645 CSJ
                              TXL INT.2.**
                                                                                                 4F13072
                              ALS 2
                                                                                                 4F13073
05640 0 76700 0 00002
                              ADD BIN
                                                                                                 4F13074
05641 0 40000 0 07307
                              ALS 1
                                                                                                 4F13075
05642 0 76700 0 00001
                                                          EQUIVALENT,
                              ADD CHR,2
05643 0 40000 2 07316
                                                                                                 4F13076
                              TXI CSJ-1,2,-1
                                                             AND WHEN DONE,
05644 1 77777 2 05636
                                                                                                 4F13077
                                                           * TAKE CONSTANT EXIT TO CALLER.
05645 0 02000 4 00002 INT
                             TRA 2,4
                                                                                                 4F13078
                                  END OF PROGRAM BEG(TYP).
                                                                                                 4F13079
```

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4F13081
                                  BRW,4/ CALLS=JIF,BEG,VRA,CIT. CALLERS=WBT,RBT,WRD.
                                                                                               4F13082
                                                            SAVE THE C(XR4) + AND
                                                                                               4F13083
05646 -0 63400 4 06054 BRW
                              SXD XRW94
                                                            SET CON = 0 OR ++144 OR ++192.
                              SLW CON
                                                                                               4F13084
       0 60200 0 06140
05647
                              TSX JIF,4
                                                         * GO JUMP IFN, AND SET SL AND TL.
                                                                                               4F13085
05650
       0 07400 4 02372
                                                         * GO SCAN AND TEST TYPE OF SYMBOL.
                              TSX BEG,4
                                                                                               4F13086
       0 07400 4 05603
05651
                                                     * IF VARIABLE, ENTER FORVAR AND CITS.4F13087
                              TSX VRA+4
05652
       0 07400 4 06032
                                                            IF CONSTANT, ADJUST CONVERTED
       0 76700 0 00022
                              ALS 18
05653
                                                            NUMBER, AND SET RA.
                                                                                               4F13089
05654
      0 60100 0 07402
                              STO RA
                                                         * GO MAKE THE FOLLOWING CIT ENTRY=
                                                                                               4F13090
                              TSX CIT+4
05655
       0 07400 4 01731
                                                           WORD1--0(IFN)0(248)
                              PZE TL
                                                                                               4F13091
05656
       0 00000 0 01371
                                                           WORD2--(WTB-RBT-WRD-RDD)000
                                                                                               4F13092
                              PZE OP
05657
       0 00000 0 07401
                              PZE L(0)
                                                          WORD3--000000
                                                                                               4F13093
05660
       0 00000 0 01406
                                                         WORD4--000000 OR 0(UNIT)000
                              PZE RA
                                                                                               4F13094
       0 00000 0 07402
05661
                                                           MOVE CPYOOD
                                                                                               4F13095
05662 -0 50000 0 01544
                              CAL CPY
                                                           INTO OP.
                                                                                               4F13096
      0 60200 0 07401
                              SLW OP
05663
                              CAL TXLOP
                                                           SET OP-SWITCHES,
                                                                                               4F13097
05664 -0 50000 0 00415
                              STP ETMSW
                                                           ETMSW AND LTMSW.
                                                                                               4F13098
05665
      0 63000 0 05754
                                                           TO THE TRA CASE.
                                                                                               4F13099
                              STP LTMSW
05666
     0 63000 0 05757
                              CAL RTN
                                                           MOVE (RTN)
                                                                                               4F13100
05667 -0 50000 0 06133
                              SLW END
                                                           INTO END.
                                                                                               4F13101
05670 0 60200 0 06141
                              STZ SL
                                                           CLEAR SL,
                                                                                               4F13102
05671 0 60000 0 01367
                                                           RESTORE THE C(XR4), AND
                                                                                              4F13103
05672 -0 53400 4 06054
                              LXD XRW+4
05673 0 02000 4 00001
                              TRA 194
                                                         * EXIT TO CALLER.
                                                                                               4F13104
                                                                                               4F13105
                                                                                             *4F13106
                                                                                               4F13107
                                  BSS,2/ CALLS=CITOO. CALLERS=LPR,C1600.
                                                                                               4F13108
                                  BSS COMPILES= IFN BSS O.
                                                                                               4F13109
                                                         * GO MAKE FOLLOWING CIT ENTRY=
                                                                                               4F13110
                              TSX CITOO,4
      0 07400 4 01731 BSS
                              PZE SL .
                                                           WORD1---0(IFN)000
                                                                                               4F13111.
      0 00000 0 01367
05675
                              PZE L(BSS)
                                                           WORD2-BSS000
                                                                                              4F13212
       0 00000 0 01536
                              PZE L(0)
                                                           WORD3--000000
                                                                                              4F13113
      0 00000 0 01406
05677
                             PZE L(0)
                                                           WORD4--000000
                                                                                              4F13114
05700
      0 00000 0 01406
05701 0 02000 2 00001
                              TRA 1.2
                                                         * EXIT TO CALLER+1.
                                                                                              4F13115
                                   END OF PROGRAM BSS.
                                                                       4F13118
                                  CA100+4/ CALLS=DIAG. CALLER=CA000.
                                                                                              4F13119
                                  CA100 READS NEXT SOURCE PROGRAM CARD (1 TAPE RECORD).
                                                                                              4F13120
                             LXA TERC 2
                                                           PREPARE TO COUNT
                                                                                              4F13121
05702 0 53400 2 01413 CA100
                                                           TAPE READING ERRORS.
                              SXD 1G,2
                                                                                              4F13122
05703 -0 63400 2 01112
                              RTT
                                                          TURN OFF TAPE CHECK INDICATOR.
                                                                                              4F13123
05704 -0 76000 0 00012
                                                           PROCEED TO NEXT INSTRUCTION.
                              NOP
                                                                                              4F13124
05705
     0 76100 0 00000
     0 76200 0 00202 CA101
                             RDS 130
                                                           SELECT SOURCE TAPE FOR READING.
                                                                                              4F13125
                              LXA L(12),2
                                                           INITIALIZE INDEX B FOR 12 CYCLES 0F4F13126
05707 0 53400 2 01420
                                                           COPY LOOP.
                                                                                              4F13127
                             CPY FT+12,2
                                                           COPY INTO FT REGION
                                                                                              4F13128
      0 70000 2 01347 CA102
05710
                                                           NEXT SOURCE PROGRAM CARD.
                                                                                              4F13129
     0 02000 0 05721
                              TRA CA103
05711
                              TRA CA120
                                                           END OF FILE, GO FINISH LAST STATEM-4F13130
     0 02000 0 05740
                                                           TEST TAPE ERROR COUNTER
                             LXD 1G+2
05713 -0 53400 2 01112 CA130
                                                           BY TRYING TO REDUCE BY 1.
                                                                                              4F13132
                             TIX CA131,2,1
05714 2 00001 2 05716
                             TSX DIAG.4
                                                         * FAILED 5 TIMES IN READING TAPE 2.
05715 0 07400 4 03400
                                                                                             4F13133
05716 -0 63400 2 01112 CA131 SXD 1G+2
                                                           SAVE REDUCED VALUE IN COUNTER.
                                                                                              4F13134
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05717 0 76400 0 00202 BST 130 BACKSPACE FORMULA TAPE; 4F13135 05720 0 02000 0 05706 TRA CA101 AND GO BACK TO READ AGAIN. 4F13136 05721 2 00001 2 05710 CA103 TIX CA102;2:1 TEST EXIT FROM LOOP. 4F13137 05722 0 76600 0 00333 IOD DELAY UNTIL TAPE DISCONNECTS. 4F13138 05723 -0 76000 0 05713 TXI CA130;0 IF INCORRECT; GO CHECK ERROR COUNT.4F13140 05725 0 53400 2 01420 LXA L(12);2 PREPARE TO SCAN 12 WORDS OF CARD. 4F13142 05727 0 40200 2 01347 SUB FT+12;2 FOR 4F13144 05731 2 00001 2 05733 TNZ CA113 BLANK 4F13144 05731 2 00001 2 05726 TIX CA112;2:1 CARD. 4F13145 05732 0 02000 0 05702 TRA CA100 IF BLANK, GO TO READ NEXT CARD. 4F13145 05735 0 40200 0 01421 SUB L(C) TRA CA100 IEST FOR COMMENT AF13148 05735 0 40200 0 01421 SUB L(C) TEXT FOR COMMENT CARD. 4F13148 05736 0 10000 0 05702 TZ CA110 IF NOT BLANK. 4F13148 05736 0 10000 0 05702 TZ CA100 IEST FOR COMMENT CARD. 4F13148 05736 0 40200 0 01421 SUB L(C) TZ CA100 IEST FOR COMMENT CARD. 4F13148 05736 0 10000 0 05702 TZ CA100 IEST FOR COMMENT CARD. 4F13149 05736 0 10000 0 05702 TZ CA100 IEST FOR COMMENT CARD. 4F13149 05736 0 10000 0 05702 TZ CA100 IEST FOR COMMENT CARD. 4F13159 05740 0 60000 0 01333 CA120 STZ FT INDICATE THAT FINAL 4F13151 1001CATE THAT FINAL 4F13151 1001CATE THAT FINAL 4F13151 1001CATE THAT FINAL 4F13151 1001CATE THAT FINAL 4F13153 05742 0 02000 4 00001 TRA 1;4 EXIT TO MAIN ROUTINE TO FINISH. 4F13155 END OF PROGRAM CA100. 4F13155
                                                                                                                        CC500+4/ CALLER=CC000.
CC500 BRINGS NEXT CHARACTER OF DICTIONARY INTO AC(30-35).
   4F13159
                                                                                                                     END OF PROGRAM CC500.
                                                                                                                                           ETMSW(LTMSW)+4/ CALLS=CIT. CALLERS=RDC+LPR+SPC+CMA+EMK.
                                                                                                                                                                                                                                                                                                                                                                                    4F13172
ETMSW = ENTRY POINT USED BY RDC, CMA.

O5754 -3 00000 0 05772 ETMSW TXL NOTTM, 0 SWITCH (TXL=TRA, TXH=NOP).

O5755 -0 50000 0 06112 CAL ETM PICKUP ETM000, AND 4F13175

O5756 1 00000 0 05761 XR4X TXI SETOP, 0,** GO SET OP.

LTMSW = ENTRY POINT USED BY LPR, SPC, CMA, EMK.

O5757 -3 00000 0 05772 LTMSW TXL NOTTM, 0 SWITCH (TXL=TRA, TXH=NOP).

O5760 -0 50000 0 06113 CAL LTM PICKUP LTM000, AND 4F13179

O5761 0 60200 0 06142 SETOP SLW TOP SET TOP.

O5762 -0 63400 4 05756 SXD XR4X, 4 SAVE THE C(XR4), AND 4F13180

O5764 0 00000 0 01367 PZE SL WORD1--0(IFN)000 4F13181

O5765 0 00000 0 01406 PZE L(0) WORD2--ETM000 OR LTM000 4F13184

O5766 0 00000 0 01406 PZE L(0) WORD3--000000 4F13185

O5767 0 00000 0 01367 STZ SL CLEAR SL, 4F13187

O5771 -0 53400 4 05756 LXD XR4X, 4 RESTORE THE C(XR4), AND 4F13188
                                                                                                                                           ETMSW = ENTRY POINT USED BY RDC+CMA.
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* EXIT TO CALLER.
                                                                                                    4F13189
      05772 0 02000 4 00001 NOTTM TRA 1.4
                                         END OF PROGRAM ETMSW(LTMSW).
                                                                                                    4F13190
                                                                                     * * * * * * * * 4F13191
                                                                                                    4F13192
                                        IFFIX.1/ USES=TESTFX. CALLERS=CMA, VRA(VRD).
                                                                                                    4F13193
                                                                                                    4F13194
      05773 -0 50000 0 00030 IFFIX CAL EIFNO
                                                                 SET
                                    STZ G
                                                                 G TO
                                                                                                    4F13195
      05774
             0 60000 0 01347
                                                                  (0(IFN)000).
                                                                                                    4F13196
            0 62200 0 01347
                                    STD G
      05775
                                   CAL SYM
                                                                 MOVE SYMBOL
                                                                                                    4F13197
      05776 -0 50000 0 07404
                                                                                                    4F13198
                                   SLW G+1
                                                                 INTO G+1.
      05777
             0 60200 0 01350
                                                                 PICKUP 1ST CHARACTER OF SYMBOL, AND4F13199
                                    CAL CHR-6
      06000 -0 50000 0 07310
                                    TXI TESTFX+1.0
                                                               * GO TEST FOR FIXED OR FLOATING PT. 4F13200
      06001 1 00000 0 03242
                                         END OF PROGRAM IFFIX.
                                                                                                    4F13201
                                        * * *4F13202
                                                                                                    4F13203
                                        INPUT(OUTPUT) +2/ CALLS=GIF +CIT +LIB +
                                                                                                    4F13204
                                        CALLERS=RDC+RIT+RDP+WOT+PDC+WBT+RBT+WRD+RDD+
                                                                                                    4F13205
                                        INPUT = ENTRY POINT USED BY RDC+RIT+RBT+RDD+
                                                                                                    4F13206
                                                                 PICKUP 6 TO
                                                                                                    4F13207
             0 50000 0 01414 INPUT CLA L(6)
                                    TXI OUTPUT+1
                                                                 GO SET INOUT FOR FORVAL ENTRY.
                                                                                                    4F13208
             1 00000 0 06005
      06003
TD
                                       OUTPUT = ENTRY POINT USED BY RDP. WOT. PDC. WBT. WRD.
                                                                                                    4F13209
             0 50000 0 01413 OUTPUT CLA L(5)
                                                                 PICKUP 5 TO
                                                                                                    4F13210
      06004
                                                                 SET INOUT FOR FORVAR ENTRY.
                                                                                                    4F13211
                                   STO INOUT
      06005
             0 60100 0 05536
                                                               * SET SL = IFN,000.
                                                                                                    4F13212
                                   TSX GIF+4
             0 07400 4 02375
      06006
                                                               * GO MAKE THE FOLLOWING CIT ENTRY=
                                                                                                    4F13213
                                   TSX CIT+4
      06007
             0 07400 4 01731
             0 00000 0 01367
                                   PZE SL
                                                                 WORD1--0(IFN)000
                                                                                                    4F13214
      06010
                                   PZE CAL
                                                                 WORD2--CALOOO
                                                                                                    4F13215
             0 00000 0 01537
      06011
                                                               WORD3---*00000
                                                                                                    4F13216
                                   PZE 15P
             0 00000 0 01510
      06012
                                                                WORD4--000000
                                                                                                    4F13217
                                   PZE L(0)
             0 00000 0 01406
      06013
                                                               * MAKE CLOSUB ENTRY. AND COMPILE=
                                                                                                    4F13218
             0 07400 4 06023
                                   TSX LIB,4
      06014
                                   PZE L(0)
                                                                 WORD1-000000
                                                                                                    4F13219
             0 00000 0 01406
      06015
                                                                WORD2-XITOOO
                                                                                                    4F13220
             0 00000 0 06125
                                   PZE XIT
      06016
                                                               WORD3--(LEV)
                                                                                                    4F13221
                                   PZE LEV
      06017
            0 00000 0 06132
                                                                WORD4---000000
                                                                                                    4F13222
            0 00000 0 01406
                                   PZE L(0)
      06020
                                                                 CLEAR SL, AND
                                                                                                    4F13223
                                   STZ SL
             0 60000 0 01367
      06021
                                                               * EXIT TO CALLER.
                                                                                                    4F13224
             0 02000 2 00001
                                   TRA 1.2
                                        END OF PROGRAM INPUT(OUTPUT).
                                                                                                    4F13225
                                                                                                   *4F13226
                                                                                                    4F13227
                                       LIB.1/ CALLS=TETOO.CIT. CALLERS=RDC.EMK.INPUT(OUTPUT).
                                                                                                    4F13228
                                                                 MOVE NAME OF SUBROUTINE.
                                                                                                    4F13229
      06023 -0 50000 4 00003 LIB
                                   CAL 3,4
                                                                 ADDRESS OF WHICH
                                                                                                    4F13230
                                   STA LIC
            0 62100 0 06025
                                                               IS IN WORDS OF CALLING SEQ.
                                                                                                    4F13231
                                   CAL **
      06025 -0 50000 0 00000 LIC
                                                                 INTO G. AND
                                                                                                    4F13232
            0 60200 0 01347
                                   SLW G
      06026
                                                               * GO ENTER IN THE
                                   TSX TETOO:1
                                                                                                    4F13233
            0 07400 1 03321
      06027
                                                               CLOSUB TABLE.
                                                                                                    4F13234
                                   PZE 9
      06030
            0 00000 0 00011
                                                               * MAKE CIT ENTRY, AND EXIT TO CALLER.4F13235
                                   TXI CIT+0
      06031 1 00000 0 01731
                                        END OF PROGRAM LIB.
                                                                                                    4F13236
                                                                                               * * *4F13237
                                       4F13238
                                       VRA(VRD),4/ CALLS=IFFIX,DIAG,TET00,CIT,DRTABS,JIF.
                                                                                                    4F13239
                                                                                                    4F13240
                                       CALLERS=RIT, WOT, EFT.
                                       VRA = ENTRY POINT USED BY EFT.
                                                                                                    4F13241
                                                                 RESET TPOA ADDRESS
                                                                                                    4F13242
                                   CLA L(TL)
      06032 0 50000 0 02400 VRA
```

```
4F13243
                             STA TPOA
06033 0 62100 0 05102
                                                          PREPARE TO SET OP-SWITCH TO TRA.
                                                                                             4F13244
                             CAL TXLOP
06034 -0 50000 0 00415
                                                          SET RETURN TO TSX+2, AND GO SET OP.4F13245
                             TXI VRD1,4,-1
06035 1 77777 4 06037
                                 VRD = ENTRY POINT USED BY RIT. WOT.
                                                                                             4F13246
                                                          PREPARE TO SET OP-SWITCH TO NOP.
                                                                                             4F13247
06036 0 50000 0 00415 VRD
                             CLA TXLOP
                                                          SET VRX OP-SWITCH.
                                                                                             4F13248
06037 0 63000 0 06052 VRD1
                             STP VRX
                                                                                             4F13249
                                                          SAVE THE C(XR4) FOR RETURN.
                             SXD VRX+4
06040 -0 63400 4 06052
                                                        * SET UP IFN AND SYMBOL FOR FORVAR. 4F13250
06041 0 07400 1 05773
                             TSX IFFIX.1
                                                        * ILLEGAL USE OF FLOATING VARIABLE. 4F13251
                             TSX DIAG,4
06042 0 07400 4 03400
                                                        * IF SYMBOL IS FXD-PT. GO MAKE
                                                                                             4F13252
                             TSX TETOO 1
06043 0 07400 1 03321
                                                                                             4F13253
                                                          ENTRY IN FORVAR TABLE.
                             PZE 5
06044 0 00000 0 00005
                                                        * GO MAKE THE FOLLOWING CIT ENTRY=
                                                                                            4F13254
                             TSX CIT+4
06045 0 07400 4 01731
                                                          WORD1--0(IFN)000
                                                                                             4F13255
                             PZE SL
06046 0 00000 0 01367
                                                                                            4F13256
                                                          WORD2--CALOOO
                             PZE CAL
06047 0 00000 0 01537
                                                          WORD3--(FXD-PT SYMBOL)
                                                                                            4F13257
                             PZE SYM
06050 0 00000 0 07404
                                                                                            4F13258
                                                          WORD4--000000
06051 0 00000 0 01406
                             PZE L(O)
                                                                                            4F13259
                                                        SWITCH (TXL=TRA; TXH=NOP).
                             TXH VDA,0,**
06052 3 00000 0 06055 VRX
                                                                                            4F13260
                                                         PICKUP STD000, AND
                             CAL STD
06053 -0 50000 0 06121
                                                                                            4F13261
                                                          GO SET TOP.
06054 1 00000 0 06076 XRW
                             TXI RVX+0+**
                                                          IF CON
                                                                                            4F13262
                             CLA CON
06055 0 50000 0 06140 VDA
                                                          IS NOT ZERO,
                                                                                            4F13263
                             TZE SDA
06056 0 10000 0 06070
                                                                                            4F13264
                             STO G
                                                          THEN
06057 0 60100 0 01347
                                                                                            4F13265
                             TSX FXCNIX:4
                                                        # ENTER CON IN FIXCON, AND GET TAG.
06060 0 07400 4 00417
                                                          ADJUST TAG, AND
                                                                                            4F13266
                             ALS 18
06061 0 76700 0 00022
                                                                                            4F13267
                                                          SET RA.
                             STO RA
06062 0 60100 0 07402
                                                        * GO MAKE THE FOLLOWING CIT ENTRY.
                                                                                            4F13268
                             TSX CIT,4
06063 0 07400 4 01731
                                                          WORD1---000000
                                                                                            4F13269
                             PZE L(O)
06064 0 00000 0 01406
                                                                                            4F13270
                                                          WORD2--ADD000
06065 0 00000 0 01532
                             PZE ADD
                                                                                            4F13271
                                                          WORD3--200000
                             PZE 2P
06066 0 00000 0 01501
                                                                                            4F13272
                                                          WORD4--(FIXCON TAG)
                             PZE RA
06067 0 00000 0 07402
                                                        * GO MAKE THE FOLLOWING CIT ENTRY=
                                                                                            4F13273
                             TSX CIT+4
06070 0 07400 4 01731 SDA
                                                                                            4F13274
                                                          WORD1--000000
                             PZE L(0)
06071 0 00000 0 01406
                                                                                            4F13275
                                                          WORD2--ARSOOO
                             PZE ARS
06072 0 00000 0 01535
                                                                                            4F13276
                                                          WORD3--000000
06073 0 00000 0 01406
                             PZE L(0)
                                                          WORD4--0(18)000
                                                                                            4F13277
                             PZE D18
06074 0 00000 0 01466
                                                          PICKUP STACOC+ AND
                                                                                            4F13278
                             CAL STA
06075 -0 50000 0 01571
                                                          SET TOP TO STA OR STD.
                                                                                            4F13279
                             SLW TOP
06076 0 60200 0 06142 RVX
                                                        * GO JUMP IFN, AND SET SL AND TL.
                                                                                            4F13280
06077 0 07400 4 02372
                             TSX JIF,4
                                                        * GO MAKE THE FOLLOWING CIT ENTRY=
                                                                                            4F13281
                             TSX CIT,4
06100 0 07400 4 01731
                                                                                            4F13282
                                                          WORD1--000000
06101 0 00000 0 01406
                             PZE L(O)
                                                                                            4F13283
                                                          WORD2--STA000 OR STD000
                             PZE TOP
06102 0 00000 0 06142
                                                       WORD3--0(IFN)000
                                                                                            4F13284
06103 0 00000 0 01371-
                             PZE TL
                                                                                            4F13285
                                                        WORD4--000000
                             PZE L(0)
06104 0 00000 0 01406
                                                                                            4F13286
                                                          CLEAR THE AC,
06105 -0 75400 0 05555 NLA
                             PXD LAST+0
                                                          RESTORE THE C(XR4), AND
                                                                                            4F13287
                             LXD VRX+4
06106 -0 53400 4 06052
                                                        * EXIT TO CALLER.
                                                                                            4F13288
                             TRA 1,4
06107 0 02000 4 00001
                                 END OF PROGRAM VRA(VRD).
                                                                               * * * * * * *4F13290
                                                                                            4F13291
                                 STATEA/5-CONSTANTS AND VARIABLES USED BY STATE A=
                                                                                            4F13292
                                                                                            4F13293
                                                                                            4F13294
                                                          CONSTANT USED BY IOT.
                             BCD 1BCD000
      222324000000
                       BCD
                                                         CONSTANT USED BY IOT.
                                                                                            4F13295
                             BCD 1BST000
                       BST
06111 226263000000
                                                          CONSTANT USED BY IOT.
                                                                                            4F13296
                       ETM
                             BCD 1ETM000
06112 256344000000
```

						4512207
06113	436344000000	LTM		1LTM000	CONSTANT USED BY IOT.	4F13297
06114		NTR		1NTROOO	CONSTANT USED BY IOT.	4F13298
06115	512451000000	RDR	BCD	1RDR000	CONSTANT USED BY IOT.	4F13299
06116	512566000000	REW		1REW000	CONSTANT USED BY IOT.	4F13300
06117		RTB	BCD	1RTB000	CONSTANT USED BY IOT.	4F13301
		SLW	-	15LW000	CONSTANT USED BY IOT.	4F13302
06120		STD		1STD000	CONSTANT USED BY IOT.	4F13303
06121	626324000000			1WDR000	CONSTANT USED BY IOT.	4F13304
06122		WDR	_		CONSTANT USED BY IOT.	4F13305
06123		WEF		1WEF000	CONSTANT USED BY IOT.	4F13306
06124	666322000000	WTB		1WTB000		4F13307
06125	673163000000	XIT	-	1XIT000	CONSTANT USED BY IOT.	
06126	742224233460	BDC	_	1(BDC)	CONSTANT USED BY IOT.	4F13308
06127	742362303460	CSH	BCD	1(CSH)	CONSTANT USED BY IOT.	4F13309
06130	742422233460	DBC	BCD	1(DBC)	CONSTANT USED BY IOT.	4F13310
06131	742631433460	FIL	BCD	1(FIL)	CONSTANT USED BY IOT.	4F13311
06132		LEV	BCD	1(LEV)	CONSTANT USED BY IOT.	4F13312
06133	745163453460	RTN	BCD	1(RTN)	CONSTANT USED BY IOT.	4F13313
06134	746223303460	SCH		1(SCH)	CONSTANT USED BY IOT.	4F13314
	746247303460	SPH		1(SPH)	CONSTANT USED BY IOT.	4F13315
06135		STH		1(STH)	CONSTANT USED BY 10T.	4F13316
06136	746263303460	TSH		1(TSH)	CONSTANT USED BY IOT.	4F13317
06137	746 362303460	1311	BCD	TUISHI	Complaint obligation	4F13318
		50 11	000	•	VARIABLE USED BY IOT.	4F13319
	06140		BSS		VARIABLE USED BY IOT.	4F13320
06141	0 00000 0 00000		PZE		VARIABLE USED BY 10T.	4F13322
	06142		BSS		VARIABLE USED BY IOT.	4F13323
06143			PZE		VARIABLE USED BY IOT.	4F13324
06144	0 00000 0 00000	TTA	PZE	**	VARIABLE USED BY 1014	4F13325
					OF HOW ADSTRUCTED CHATCHENIES MICED BY	
					OF NON-ARITHMETIC STATEMENTS (USED BY	CC500) • 4F13326
06145	+244677274663	DIC	ост	DIC/ DICTIONARY 244677274663	DO-GOT	CC500) • 4F13326 4F13327
	+244677274663 -067731267462	DIC			DO-GOT O-IF(S	CC500) • 4F13326 4F13327 4F13328
06146	-067731267462	DIC	OCT	244677274663	DO-GOT	CC500) • 4F13326 4F13327 4F13328 4F13329
06146 06147	-067731267462 +254562256266	DIC	OCT OCT	244677274663 -67731267462	DO-GOT O-IF(S	CC500) • 4F13326 4F13327 4F13328
06146 06147 06150	-067731267462 +254562256266 +316323307731	DIC	OCT OCT	244677274663 -67731267462 254562256266 316323307731	DO-GOT O-IF(S Ensesw ITCH-I	CC500) • 4F13326 4F13327 4F13328 4F13329
06146 06147 06150 06151	-067731267462 +254562256266 +316323307731 +267462254562	DIC	OCT OCT OCT	244677274663 -67731267462 254562256266 316323307731 267462254562	DO-GOT O-IF(S Ensesw ITCH-I	CC500) • 4F13326 4F13327 4F13328 4F13329 4F13330
06146 06147 06150 06151 06152	-067731267462 +254562256266 +316323307731 +267462254562 +254331273063	DIC	OCT OCT OCT OCT	244677274663 -67731267462 254562256266 316323307731 267462254562 254331273063	DO-GOT O-IF(S ENSESW ITCH-I F(SENS ELIGHT	CC500) • 4F13326 4F13327 4F13328 4F13329 4F13330 4F13331
06146 06147 06150 06151 06152 06153	-067731267462 +254562256266 +316323307731 +267462254562 +254331273063 -373126243165	DIC	OCT OCT OCT OCT OCT	244677274663 -67731267462 254562256266 316323307731 267462254562 254331273063 -373126243165	DO-GOT O-IF(S ENSESW ITCH-I F(SENS ELIGHT -IFDIV	CC500) • 4F13326 4F13327 4F13328 4F13329 4F13330 4F13331 4F13332
06146 06147 06150 06151 06152 06153 06154	-067731267462 +254562256266 +316323307731 +267462254562 +254331273063 -373126243165 +312425233025	DIC .	0CT 0CT 0CT 0CT 0CT 0CT	244677274663 -67731267462 254562256266 316323307731 267462254562 254331273063 -373126243165 312425233025	DO-GOT O-IF(S ENSESW ITCH-I F(SENS ELIGHT -IFDIV IDECHE	CC500) • 4F13326 4F13327 4F13328 4F13329 4F13330 4F13331 4F13332 4F13333
06146 06147 06150 06151 06152 06153 06154	-067731267462 +254562256266 +316323307731 +267462254562 +254331273063 -373126243165 +312425233025 +234277312621	DIC .	0CT 0CT 0CT 0CT 0CT 0CT 0CT	244677274663 -67731267462 254562256266 316323307731 267462254562 254331273063 -373126243165 312425233025 234277312621	DO-GOT O-IF(S ENSESW ITCH-I F(SENS ELIGHT -IFDIV IDECHE CK-IFA	CC500) • 4F13326 4F13327 4F13328 4F13329 4F13330 4F13331 4F13332 4F13333 4F13334 4F13335
06146 06147 06150 06151 06152 06153 06154 06155	-067731267462 +254562256266 +316323307731 +267462254562 +254331273063 -373126243165 +312425233025 +234277312621 +232364446443	DIC .	0CT 0CT 0CT 0CT 0CT 0CT 0CT 0CT	244677274663 -67731267462 254562256266 316323307731 267462254562 254331273063 -373126243165 312425233025 234277312621 232364446443	DO-GOT O-IF(S ENSESW ITCH-I F(SENS ELIGHT -IFDIV IDECHE CK-IFA CCUMUL	CC500) • 4F13326 4F13327 4F13328 4F13329 4F13330 4F13331 4F13332 4F13333 4F13335 4F13336
06146 06147 06150 06151 06152 06153 06154 06155 06156	-067731267462 +254562256266 +316323307731 +267462254562 +254331273063 -373126243165 +312425233025 +234277312621 +232364446443 +216346514665	DIC	0CT 0CT 0CT 0CT 0CT 0CT 0CT 0CT	244677274663 -67731267462 254562256266 316323307731 267462254562 254331273063 -373126243165 312425233025 234277312621 232364446443 216346514665	DO-GOT O-IF(S ENSESW ITCH-I F(SENS ELIGHT -IFDIV IDECHE CK-IFA CCUMUL ATOROV	CC500) • 4F13326 4F13327 4F13328 4F13329 4F13330 4F13331 4F13333 4F13333 4F13335 4F13336 4F13337
06146 06147 06150 06151 06152 06153 06154 06155 06157	-067731267462 +254562256266 +316323307731 +267462254562 +254331273063 -373126243165 +312425233025 +234277312621 +232364446443 +216346514665 +255126434666	DIC	0CT 0CT 0CT 0CT 0CT 0CT 0CT 0CT 0CT	244677274663 -67731267462 254562256266 316323307731 267462254562 254331273063 -373126243165 312425233025 234277312621 232364446443 216346514665 255126434666	DO-GOT O-IF(S ENSESW ITCH-I F(SENS ELIGHT -IFDIV IDECHE CK-IFA CCUMUL ATOROV ERFLOW	CC500) • 4F13326 4F13327 4F13328 4F13330 4F13331 4F13332 4F13333 4F13334 4F13335 4F13336 4F13337 4F13338
06146 06147 06150 06151 06152 06153 06154 06155 06157	-067731267462 +254562256266 +316323307731 +267462254562 +254331273063 -373126243165 +312425233025 +234277312621 +232364446443 +216346514665 +255126434666	DIC	OCT OCT OCT OCT OCT OCT OCT OCT OCT OCT	244677274663 -67731267462 254562256266 316323307731 267462254562 254331273063 -373126243165 312425233025 234277312621 232364446443 216346514665 255126434666 -373126506446	DO-GOT O-IF(S ENSESW ITCH-I F(SENS ELIGHT -IFDIV IDECHE CK-IFA CCUMUL ATOROV ERFLOW -IFQUO	CC500) • 4F13326 4F13327 4F13328 4F13330 4F13331 4F13332 4F13333 4F133334 4F13335 4F13336 4F13337 4F13338 4F13338
06146 06147 06150 06151 06152 06153 06154 06155 06156 06160	-067731267462 +254562256266 +316323307731 +267462254562 +254331273063 -373126243165 +312425233025 +234277312621 +232364446443 +216346514665 +255126434666 -373126506446	DIC	0CT 0CT 0CT 0CT 0CT 0CT 0CT 0CT 0CT 0CT	244677274663 -67731267462 254562256266 316323307731 267462254562 254331273063 -373126243165 312425233025 234277312621 232364446443 216346514665 255126434666 -373126506446 -233125456346	DO-GOT O-IF(S ENSESW ITCH-I F(SENS ELIGHT -IFDIV IDECHE CK-IFA CCUMUL ATOROV ERFLOW -IFQUO TIENTO	CC500) • 4F13326 4F13327 4F13328 4F13330 4F13331 4F13332 4F13333 4F13335 4F13336 4F13337 4F13338 4F13339 4F13339
06146 06147 06150 06151 06152 06153 06154 06155 06157 06160	-067731267462 +254562256266 +316323307731 +267462254562 +254331273063 -373126243165 +312425233025 +234277312621 +232364446443 +216346514665 +255126434666 -373126506446	DIC	0CT 0CT 0CT 0CT 0CT 0CT 0CT 0CT 0CT 0CT	244677274663 -67731267462 254562256266 316323307731 267462254562 254331273063 -373126243165 312425233025 234277312621 232364446443 216346514665 255126434666 -373126506446 -233125456346 -252551264346	DO-GOT O-IF(S ENSESW ITCH-I F(SENS ELIGHT -IFDIV IDECHE CK-IFA CCUMUL ATOROV ERFLOW -IFQUO TIENTO VERFLO	CC500) • 4F13326 4F13327 4F13328 4F13330 4F13331 4F13332 4F13333 4F13335 4F13336 4F13337 4F13338 4F13338 4F13339 4F13340 4F13341
06146 06147 06150 06151 06152 06154 06155 06156 06157 06160 06161	-067731267462 +254562256266 +316323307731 +267462254562 +254331273063 -373126243165 +312425233025 +234277312621 +232364446443 +216346514665 +255126434666 -373126506446 -233125456346	DIC	OCT OCT OCT OCT OCT OCT OCT OCT OCT OCT	244677274663 -67731267462 254562256266 316323307731 267462254562 254331273063 -373126243165 312425233025 234277312621 232364446443 216346514665 255126434666 -373126506446 -233125456346 -252551264346 -267731267721	DO-GOT O-IF(S ENSESW ITCH-I F(SENS ELIGHT -IFDIV IDECHE CK-IFA CCUMUL ATOROV ERFLOW -IFQUO TIENTO VERFLO W-IF-A	CC500) • 4F13326 4F13327 4F13329 4F13330 4F13331 4F13332 4F13333 4F13335 4F13335 4F13337 4F13338 4F13339 4F13340 4F13341 4F13342
06146 06147 06150 06151 06152 06153 06154 06157 06160 06161 06162 06163	-067731267462 +254562256266 +316323307731 +267462254562 +254331273063 -373126243165 +312425233025 +234277312621 +232364446443 +216346514665 +255126434666 -373126506446 -233125456346 -252551264346 -252551264346	DIC	OCT OCT OCT OCT OCT OCT OCT OCT OCT OCT	244677274663 -67731267462 254562256266 316323307731 267462254562 254331273063 -373126243165 312425233025 234277312621 232364446443 216346514665 255126434666 -373126506446 -233125456346 -252551264346	DO-GOT O-IF(S ENSESW ITCH-I F(SENS ELIGHT -IFDIV IDECHE CK-IFA CCUMUL ATOROV ERFLOW -IFQUO TIENTO VERFLO W-IF-A SSIGN-	CC500) • 4F13326 4F13327 4F13328 4F13330 4F13331 4F13332 4F13333 4F13335 4F13335 4F13336 4F13337 4F13338 4F13339 4F13340 4F13341 4F13342 4F13343
06146 06147 06150 06151 06152 06154 06155 06156 06161 06162 06163 06164	-067731267462 +254562256266 +316323307731 +267462254562 +254331273063 -373126243165 +312425233025 +234277312621 +232364446443 +216346514665 +255126434666 -373126506446 -233125456346 -252551264346 -252551264346 -257731267721 -226231274577	DIC	OCT OCT OCT OCT OCT OCT OCT OCT OCT OCT	244677274663 -67731267462 254562256266 316323307731 267462254562 254331273063 -373126243165 312425233025 234277312621 232364446443 216346514665 255126434666 -373126506446 -233125456346 -252551264346 -267731267721	DO-GOT O-IF(S ENSESW ITCH-I F(SENS ELIGHT -IFDIV IDECHE CK-IFA CCUMUL ATOROV ERFLOW -IFQUO TIENTO VERFLO W-IF-A SSIGN- STOP-P	CC500) • 4F13326 4F13327 4F13328 4F13330 4F13331 4F13332 4F13333 4F13334 4F13335 4F13336 4F13337 4F13338 4F13339 4F13340 4F13341 4F13342 4F13343
06146 06147 06150 06151 06152 06153 06154 06157 06160 06161 06162 06163 06164	-067731267462 +254562256266 +316323307731 +267462254562 +254331273063 -373126243165 +312425233025 +234277312621 +232364446443 +216346514665 +255126434666 -373126506446 -233125456346 -252551264346 -252551264346 -267731267721 -226231274577	DIC	OCT	244677274663 -67731267462 254562256266 316323307731 267462254562 254331273063 -373126243165 312425233025 234277312621 232364446443 216346514665 255126434666 -373126506446 -233125456346 -252551264346 -252551264346 -252551264346	DO-GOT O-IF(S ENSESW ITCH-I F(SENS ELIGHT -IFDIV IDECHE CK-IFA CCUMUL ATOROV ERFLOW -IFQUO TIENTO VERFLO W-IF-A SSIGN-	CC500) • 4F13326 4F13327 4F13328 4F13330 4F13331 4F13333 4F13333 4F13335 4F13336 4F13336 4F13337 4F13338 4F13339 4F13340 4F13340 4F13344 4F13343
06146 06147 06150 06151 06152 06153 06154 06157 06160 06161 06162 06163 06164 06165	-067731267462 +254562256266 +316323307731 +267462254562 +254331273063 -373126243165 +312425233025 +234277312621 +232364446443 +216346514665 +255126434666 -373126506446 -233125456346 -252551264346 -252551264346 -267731267721 -226231274577 -226346477747 +216462257762	DIC	OCT	244677274663 -67731267462 254562256266 316323307731 267462254562 254331273063 -373126243165 312425233025 234277312621 232364446443 216346514665 255126434666 -373126506446 -233125456346 -2525512643466 -2525512643466 -2525512643466 -2525512643466	DO-GOT O-IF(S ENSESW ITCH-I F(SENS ELIGHT -IFDIV IDECHE CK-IFA CCUMUL ATOROV ERFLOW -IFQUO TIENTO VERFLO W-IF-A SSIGN- STOP-P	CC500) • 4F13326 4F13327 4F13328 4F13330 4F13331 4F13332 4F13333 4F13334 4F13336 4F13336 4F13337 4F13338 4F13339 4F13340 4F13341 4F13342 4F13343
06146 06147 06150 06151 06152 06153 06154 06156 06165 06161 06162 06163 06164 06165 06166	-067731267462 +254562256266 +316323307731 +267462254562 +254331273063 -373126243165 +312425233025 +234277312621 +232364446443 +216346514665 +255126434666 -373126506446 -233125456346 -252551264346 -252551264346 -25255126477721 -226231274577 -226346477747 +216462257762 +254562254331	DIC	OCT	244677274663 -67731267462 254562256266 316323307731 267462254562 254331273063 -373126243165 312425233025 234277312621 232364446443 216346514665 25512643466 -373126506446 -233125456346 -267731267721 -226231274577 -226346477747 216462257762 254562254331	DO-GOT O-IF(S ENSESW ITCH-I F(SENS ELIGHT -IFDIV IDECHE CK-IFA CCUMUL ATOROV ERFLOW -IFQUO TIENTO VERFLO W-IF-A SSIGN- STOP-P AUSE-S	CC500) • 4F13326 4F13327 4F13328 4F13330 4F13331 4F13333 4F13333 4F13335 4F13336 4F13336 4F13337 4F13338 4F13339 4F13340 4F13340 4F13344 4F13343
06146 06147 06150 06151 06152 06153 06154 06157 06160 06161 06162 06163 06164 06165 06166 06167	-067731267462 +254562256266 +316323307731 +267462254562 +254331273063 -373126243165 +312425233025 +234277312621 +232364446443 +216346514665 +255126434666 -373126506446 -233125456346 -252551264346 -252551264346 -252551264346 -252551264346 +252551264346 +252551264346 +252551264346 +252551264346 +252551264346 +252551264346 +252551264346 +252551264346 +252551264346 +252551264346 +252551264346 +252551264346 +252551264346 +2526231274577 +216462257762 +254562254331 +273063772431	DIC	OCT OCT OCT OCT OCT OCT OCT OCT OCT OCT	244677274663 -67731267462 254562256266 316323307731 267462254562 254331273063 -373126243165 312425233025 234277312621 232364446443 216346514665 25512643466 -373126506446 -233125456346 -252551264346 -267731267721 -226231274577 -226346477747 216462257762 254562254331 273063772431	DO-GOT O-IF(S ENSESW ITCH-I F(SENS ELIGHT -IFDIV IDECHE CK-IFA CCUMUL ATOROV ERFLOW -IFQUO TIENTO VERFLO W-IF-A SSIGN- STOP-P AUSE-S ENSELI	CC500) • 4F13326 4F13327 4F13328 4F13330 4F13331 4F13333 4F13333 4F13335 4F13336 4F13336 4F13337 4F13338 4F13339 4F13340 4F13340 4F13342 4F13343 4F13343 4F13344
06146 06147 06150 06151 06152 06153 06154 06155 06166 06161 06162 06163 06164 06166 06167 06171	-067731267462 +254562256266 +316323307731 +267462254562 +254331273063 -373126243165 +312425233025 +234277312621 +232364446443 +216346514665 +255126434666 -373126506446 -233125456346 -252551264346 -267731267721 -226231274577 -226346477747 +216462257762 +254562254331 +273063772431 -042545623146	DIC	OCT OCT OCT OCT OCT OCT OCT OCT OCT OCT	244677274663 -67731267462 254562256266 316323307731 267462254562 254331273063 -373126243165 312425233025 234277312621 232364446443 216346514665 255126434666 -373126506446 -233125456346 -252551264346 -267731267721 -226231274577 -226346477747 216462257762 254562254331 273063772431 -42545623146	DO-GOT O-IF(S ENSESW ITCH-I F(SENS ELIGHT -IFDIV IDECHE CK-IFA CCUMUL ATOROV ERFLOW -IFQUO TIENTO VERFLO W-IF-A SSIGN- STOP-P AUSE-S ENSELI GHT-DI MENSIO	CC500) • 4F13326 4F13327 4F13328 4F13330 4F13331 4F13332 4F13333 4F13333 4F13336 4F13336 4F13337 4F13338 4F13339 4F13340 4F13341 4F13342 4F13343 4F13344 4F13345 4F13346 4F13347 4F13348
06146 06147 06150 06151 06152 06153 06154 06157 06160 06161 06162 06163 06164 06165 06166 06167 06171	-067731267462 +254562256266 +316323307731 +267462254562 +254331273063 -373126243165 +312425233025 +234277312621 +232364446443 +216346514665 +255126434666 -373126506446 -233125456346 -252551264346 -252551264346 -267731267721 -226231274577 -226346477747 +216462257762 +254562254331 +273063772431 -042545623146 -057725506431	DIC	OCT	244677274663 -67731267462 254562256266 316323307731 267462254562 254331273063 -373126243165 312425233025 234277312621 232364446443 216346514665 255126434666 -373126506446 -233125456346 -2525512643466 -252551264346 -2627731267721 -226231274577 -226346477747 216462257762 254562254331 273063772431 -42545623146 -57725506431	DO-GOT O-IF(S ENSESW ITCH-I F(SENS ELIGHT -IFDIV IDECHE CK-IFA CCUMUL ATOROV ERFLOW -IFQUO TIENTO VERFLO W-IF-A SSIGN- STOP-P AUSE-S ENSELI GHT-DI MENSIO N-EQUI	CC500) • 4F13326 4F13327 4F13328 4F13330 4F13331 4F13332 4F13333 4F13333 4F13336 4F13336 4F13337 4F13338 4F13339 4F13340 4F13341 4F13342 4F13343 4F13345 4F13345 4F13346 4F13347 4F13348 4F13349
06146 06147 06150 06151 06152 06153 06154 06157 06160 06161 06162 06163 06164 06165 06166 06167 06171	-067731267462 +254562256266 +316323307731 +267462254562 +254331273063 -373126243165 +312425233025 +234277312621 +232364446443 +216346514665 +255126434666 -373126506446 -233125456346 -252551264346 -267731267721 -226231274577 -226346477747 +216462257762 +254562254331 +273063772431 -042545623146 -057725506431 -252143254523	DIC	OCT OCT OCT OCT OCT OCT OCT OCT OCT OCT	244677274663 -67731267462 254562256266 316323307731 267462254562 254331273063 -373126243165 312425233025 234277312621 232364446443 216346514665 255126434666 -373126506446 -233125456346 -252551264346 -267731267721 -226231274577 -226346477747 2164622577762 254562254331 273063772431 -42545623146 -57725506431 -252143254523	DO-GOT O-IF(S ENSESW ITCH-I F(SENS ELIGHT -IFDIV IDECHE CK-IFA CCUMUL ATOROV ERFLOW -IFQUO TIENTO VERFLO W-IF-A SSIGN- STOP-P AUSE-S ENSELI GHT-DI MENSIO N-EQUI VALENC	CC500) • 4F13326 4F13327 4F13328 4F13330 4F13331 4F13332 4F13333 4F13333 4F13335 4F13336 4F13337 4F13338 4F13339 4F13340 4F13341 4F13342 4F13343 4F13345 4F13345 4F13346 4F13347 4F13348 4F13349 4F13350
06146 06147 06150 06151 06152 06153 06154 06157 06160 06161 06162 06163 06164 06165 06166 06167 06171	-067731267462 +254562256266 +316323307731 +267462254562 +254331273063 -373126243165 +312425233025 +234277312621 +232364446443 +216346514665 +255126434666 -373126506446 -233125456346 -252551264346 -252551264346 -267731267721 -226231274577 -226346477747 +216462257762 +254562254331 +273063772431 -042545623146 -057725506431	DIC	OCT OCT OCT OCT OCT OCT OCT OCT OCT OCT	244677274663 -67731267462 254562256266 316323307731 267462254562 254331273063 -373126243165 312425233025 234277312621 232364446443 216346514665 255126434666 -373126506446 -233125456346 -2525512643466 -252551264346 -2627731267721 -226231274577 -226346477747 216462257762 254562254331 273063772431 -42545623146 -57725506431	DO-GOT O-IF(S ENSESW ITCH-I F(SENS ELIGHT -IFDIV IDECHE CK-IFA CCUMUL ATOROV ERFLOW -IFQUO TIENTO VERFLO W-IF-A SSIGN- STOP-P AUSE-S ENSELI GHT-DI MENSIO N-EQUI	CC500) • 4F13326 4F13327 4F13328 4F13330 4F13331 4F13332 4F13333 4F13333 4F13336 4F13336 4F13337 4F13338 4F13339 4F13340 4F13341 4F13342 4F13343 4F13345 4F13345 4F13346 4F13347 4F13348 4F13349

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                                                                      PUTTAP
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      06203 -076463632147
                                                                                                           4F13358
                                                                      E-READ
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      06204 +257751252124
                                                                                                           4F13359
                                                                      DRUM-R
                                      OCT 245164447751
      06205 +245164447751
                                                                                                           4F13360
                                                                      EAD-WR
                                      OCT 252124776651
      06206 +252124776651
                                                                                                           4F13361
                                                                      ITETAP
                                      OCT 316325632147
      06207 +316325632147
                                                                                                           4F13362
                                                                      E-WRIT
                                      OCT 257766513163
      06210 +257766513163
                                                                                                           4F13363
                                                                      EQUTPU
                                      OCT 254664634764
      06211 +254664634764
                                                                                                           4F13364
                                                                      TTAPE-
                                      OCT -236321472577
      06212 -236321472577
                                                                                                           4F13365
                                                                      WRITED
                                      OCT -265131632524
      06213 -265131632524
                                                                                                           4F13366
                                                                      RUM-PR
                                      OCT -116444774751
      06214 -116444774751
                                                                                                           4F13367
                                                                      INT-PU
                                      OCT
                                          314563774764
      06215 +314563774764
                                                                                                           4F13368
                                      OCT -52330775125
                                                                      NCH-RE
      06216 -052330775125
                                                                                                           4F13369
                                                                      WIND-B
                                      OCT -263145247722
      06217 -263145247722
                                                                                                           4F13370
                                                                      ACKSPA
                                      OCT 212342624721
      06220 +212342624721
                                                                                                           4F13371
                                                                      CE-END
                                      OCT 232577254524
      06221 +232577254524
                                                                                                           4F13372
                                                                      FILE-F
                                      OCT 263143257726
      06222 +263143257726
                                                                                                           4F13373
                                                                      ORMAT-
                                      OCT -65144216377
      06223 -065144216377
                                                                                                           4F13374
                                                                      SUBROU
                                      OCT -226422514664
      06224 -226422514664
                                                                                                           4F13375
                                                                      TINE-C
                                      OCT -233145257723
      06225 -233145257723
                                                                                                           4F13376
                                                                      OMMON-
                                      OCT -064444464577
      06226 -064444464577
                                                                                                           4F13377
                                                                      RETURN
                                      OCT -112563645145
      06227 -112563645145
                                                                                                           4F13378
                                                                      -CALL-
                                      OCT -372321434377
      06230 -372321434377
                                                                                                           4F13379
                                                                      END(-F
                                      OCT 254524747726
      06231 +254524747726
                                                                                                           4F13380
                                                                      UNCTIO
                                      OCT -244523633146
      06232 -244523633146
                                                                                                           4F13381
                                      OCT -057777777777
      06233 -057777777777
                                                                                                           4F133815
                                      BSS 10
                         06234
                                                                                                           4F13382
                                            END OF DICTIONARY.
                                                                                                     * * *4F13383
                                                                                                           4F13384
                                                                                                           4F13385
                                          T/ TRANSFER TABLE (USED BY CC000).
                                                                                                           4F13386
                                                                      DO.
                                      TXI C0100.0
              1 00000 0 03653 T
      06246
Ð
                                                                                                           4F13387
                                                                      GO TO.
              1 00000 0 03720
                                      TXI C0200+0
      06247
                                                                                                           4F13388
                                                                      IF (SENSE SWITCH.
              1 00000 0 04106
                                      TXI C0400.0
      06250
D
                                                                                                           4F13389
                                                                      IF (SENSE LIGHT.
                                      TX1 C0500 • 0
              1 00000 0 04150
      06251
                                                                                                           4F13390
                                                                      IF DIVIDE CHECK.
                                      TXI C0600+0
                00000 0 04154
Đ
      06252
                                                                                                           4F13391
                                                                      IF AC OVERFLOW.
                                      TXI C0700.0
              1 00000 0 04162
      06253
                                                                                                           4F13392
                                                                      IF MQ OVERFLOW.
                                      TXI C0800 • 0
             1 00000 0 04166
D
      06254
                                                                                                           4F13393
                                                                      IF.
                                      TXI C0300+0
              1 00000 0 04033
      06255
D
                                                                                                           4F13394
                                                                      ASSIGN.
                                      TXI C1000 • 0
              1 00000 0 04216
      06256
                                                                                                           4F13395
                                                                      STOP.
                                      TXI C1300.0
              1 00000 0 04343
      06257
D
                                                                                                           4F13396
                                                                      PAUSE.
                                      TXI C0900 + 0
              1 00000 0 04170
      06260
                                                                                                           4F13397
                                                                      SENSE LIGHT.
              1 00000 0 04251
                                      TXI C1100,0
      06261
                                                                                                           4F13398
                                                                      DIMENSION.
                                      TXL C1200 + 0
      06262 -3 00000 0 04266
D
                                                                                                           4F13399
                                                                      EQUIVALENCE.
                                      TXL C1500.0
      06263 -3 00000 0 04375
                                                                                                           4F13400
                                                                      FREQUENCY.
      06264 -3 00000 0 04354
                                      TXL C1400 > 0
D
                                                                                                           4F13401
                                                                      CONTINUE.
                                      TXI C1600,0
             1 00000 0 04433
      06265
                                                                                                           4F13402
                                                                      READ TAPE.
             1 00000 0 05012
                                      TXI RBT .O
      06266
D
                                                                                                           4F13403
                                                                      READ INPUT TAPE.
                                      TXI RIT,0
              1 00000 0 04745
      06267
D
                                                                                                           4F13404
                                                                      READ DRUM.
             1 00000 0 05063
                                      TXI RDD +0
      06270
```

UENCY-

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4F13352

```
READ CARD.
                                                                                                          4F13405
             1 00000 0 04673
                                      TXI RDC+0
      06271
                                                                      WRITE TAPE.
D
      06272
             1 00000 0 04777
                                      TXI WBT+0
                                                                                                          4F13406
                                                                      WRITE OUTPUT TAPE.
                                                                                                          4F13407
Ð
      06273
             1 00000 0 04764
                                      TXI WOT+O
                                                                      WRITE DRUM.
                                                                                                          4F13408
Ð
      06274
             1 00000 0 05044
                                      TXI WRD,0
                                      TXI RDP.0
                                                                      PRINT.
                                                                                                          4F13409
      06275
             1 00000 0 04753
                                      TXI PDC +0
                                                                      PUNCH.
                                                                                                          4F13410
D
      06276
             1 00000 0 04772
             1 00000 0 05107
                                                                      REWIND.
                                                                                                          4F13411
      06277
                                      TXI RWN.O
                                                                                                          4F13412
D
      06300
             1 00000 0 05111
                                      TXI BSP+0
                                                                      BACKSPACE.
                                      TXI EFT.0
                                                                      END FILE.
                                                                                                          4F13413
      06301 1 00000 0 05066
                                      TXL FOR .O
                                                                     FORMAT.
                                                                                                          4F13414
Ð
      06302 -3 00000 0 05113
                                      TXL C3000+0
                                                                      SUBROUTINE.
                                                                                                          4F13415
      06303 -3 00000 0 04442
                                      TXL C3100.0
                                                                      COMMON.
                                                                                                          4F13416
      06304 -3 00000 0 04512
      06305 1 00000 0 04536
                                      TXI C3200+0
                                                                      RETURN.
                                                                                                          4F13417
D
                                                                                                          4F13418
                                      TXI C3300.0
                                                                      CALL
      06306 1 00000 0 04607
D
      06307 -3 00000 0 04660
                                      TXL C3400 • 0
                                                                      END.
                                                                                                          4F13419
                                                                      FUNCTION.
                                                                                                          4F13420
                                      TXL C3500.0
      06310 -3 00000 0 04440
                                      BSS 10
                                                                                                          4F134205
                        06311
                                           END OF TRANSFER TABLE.
                                                                                                          4F13421
                        06323 ENDADR BSS 0
                                                                                                          4F134215
                                                                                                       * *4F13422
                                      ORG 3783
                                                                                                          4F13424
                        07307 ENDA
                                      BSS 1
                                                                     VARIABLE USED BY IOT.
                                                                                                          4F13425
                        07307 BIN
                                     BES 6
                                                                     VARIABLE USED BY IOT.
                                                                                                          4F13426
                        07316
                               CHR
                                                                     PARAMETERS FOR TLDOS TABLE -IOT.
                                      B$S 50
                                                                                                          4F13427
                        07316
                               DOLEV BSS
                                                                     PARAMETERS FOR TLDOS TABLE -IOT.
                                                                                                          4F13428
                        07400
                        07401
                               OP
                                      BSS 1
                                                                     VARIABLE USED BY IOT.
                                                                                                         4F13429
                                                                     VARIABLE USED BY IOT.
                        07402
                                      BSS
                                                                                                         4F13430
                                                                     VARIABLE USED BY IOT.
                                                                                                         4F13431
                        07403
                               SA
                                      BSS 1
                                                                     VARIABLE USED BY IOT.
                                                                                                          4F13432
                        07404
                              SYM
                                      BSS
                                                                     DO TABLE USED BY IOT.
                        07405 TLDOS
                                     BSS 250
                                                                                                         4F13433
                                           END OF WORKING STORAGE USED BY STATEA.
                                                                                                          4F13434
                                                                                                        *4F13435
                                                                                                         4F13436
                                          END OF THE NON-ARITHMETIC PART OF SECTION ONE.
                                                                                                         4F13437
                                                                                                      * *4F13439
                                                                                                         4F13440
                                          ARITHMETIC / STATE B=
                                                                                                         4F13441
                                          704 FORTRAN MASTER RECORD CARD / STATE B = F0180000.
                                                                                                         4F13442
                        00000
                                     ORG 0
                                                                                                         4F134421
                                     PZE ORGB . DMWR06
                                                                                                         4F134422
      00000
             0 00506 0 03440
                                                                                                         4F134423
                                     PZE ENDB-1
      00001
             0 00000 0 05214
                                                                                                         4F13443
                        03440 ORGB
                                     ORG 1824
                                                                                                         4F13444
                                                                                                         4F13445
                                          THIS IS A RECODED VERSION OF STATE B OF SECTION ONE, 704
                                                                                                         4F13446
                                          FORTRAN II. THE SCAN HAS BEEN COMPLETELY RECODED AND LEVEL
                                                                                                         4F13447
                                          ANALYSIS HAS BEEN FOLDED OVER.
                                                                                                         4F13448
                                                                                                         4F13449
                                          STATE B CONSISTS OF TWO PARTS....SCAN AND LEVEL ANALYSIS.
                                                                                                         4F13450
                                         THE SCAN IS LEFT TO RIGHT OVER THE SOURCE STATEMENT WHICH IS 4F13451
                                         IN THE F REGION OF COMMON AND IS IN BCD.
                                                                                                         4F13452
                                         EACH FIXED POINT CONSTANT, FLOATING POINT CONSTANT, AND BCD
                                                                                                         4F13453
```

							(HOLLERITH) ARGU	MENT IN CALL NAME STATEMENTS ARE ENTERED IN	4F13454 4F13455
							TABLES AND GIVEN	AN INTERNAL VARIABLE NAME. PREFORMED FOR EACH ELEMENT OF THE STATEMEN	
							FEAST WHAT 1212 12	IS DEFINED AS A VARIABLE, FUNCTION NAME OR	14513457
									4F13458
							AND THE OPERATOR	WHICH PRECEDES IT.	4F13459
03440		76000				SLF			
03441		50000					SIGIST		4F13460
03442		60100					SIGIIX-3	CLEAR X X X X	4F13461 4F13462
03443		60000					ARGCTR	CLEAR	
03444	_	60000	_	7			CHSAVE	X X X X X X X X X X X SET NBAR=-1 X SET ARERAS - E(X SET FWAF AND CHCTR - 0 SET SWITCHES FOR LEFT SCAN• X X X X X SET OP TO ADDITION X CLEAR FUNCTION NAME INDICATOR CLEAR FUNCTION ARG COUNTER• CLEAR RECEIVING CELL• SET E = -0 X SET IR2 FOR SIX CHARS• CHAR IN CHSAVE, IF ANY, TO AC• X CHSAVE EMPTY• GET NEXT CHAR•	4F13464
03445		60000					3LBAR NBAR CBAR ABAR FSTYPE	X	4512445
03446		60000					NBAR	X	4513465
03447		60000					CBAR	X	4F12460
		60000					ABAR	X	4F13440
03451		60000					FSTYPE	A SET MOAD - 1	4F13460
		53400					1BAR • 4	SEI NBAR=-1	4F12470
		63400					NBAR #4	X CCT ADEDAG 5/	4F12470
03454		50000				CAL	E(SEI ARERAS - EI	4512411
03455		60200					ARERAS	X.	4513472
03456		07400				TSX	C0190X • 4 TXHOP	SET FWAF AND CHCTK - U	4512472
		50000					ТХНОР	SET SWITCHES FOR LEFT SCAN.	4512474
03460		63000					MS093	X	4512472
03461	-	63000					MS310	X	4512472
03462		63000					MS321	X	4512471
03463	-0	50000	0	01512	MS010	CAL	ADPLUS	SET OP TO ADDITION	4F12470
03464					MS030	SLW	E+1	X SAN FUNCTION MANE INDICATOR	4F13419
03465		60000					FNBITS	CLEAR FUNCTION NAME INDICATOR	4F1346U
03466		60000			-		FNCTR	CLEAR FUNCTION ARG COUNTERS	4512481
@3467		60000				STZ	G	CLEAR RECEIVING CELL.	4F13482
03470		50200					L(0)	SET E = -0	4513463
03471	0	60100	0	01126		STO	E	X	4F12405
03472	0	53400	2	01414		LXA	L(6) +2 CHSAVE	SET TRE FOR STA CHARS.	4F13483
03473	-0	50000	٥	01124	MS040	CAL	CHSAVE	CHAR IN CHSAVE, IF ANT, 10 AC.	4512400
03474	-0	10000	0	03476		INZ	MS041	X CHANG CHANGE CHANGE	4F13487 4F13488
03475	. 0	07400	4	01707			C0190+4	CHSAVE EMPTY, GET NEXT CHAR.	4F13489
03476					MS041	CAS	L(9)	IS CHARA NUMERICA	
03477	0	02000	0	03504			MS050	N/9 TARE TRA	4F13490 4F13491
03500					M54007		CM4100+C		4F13491
03501	-	07400				-	ROYCNV • 4	A POSTUDAL S. TUTE MAC MOLLEDITU.	4E13403
03502		02000					HOLL	IS CHAR. NUMERIC. N/. TAKE TRA X RETURN 1. THIS WAS HOLLERITH. THIS WAS FIXED OR FLOATING CONSTANT.	4F13494
03503		02000					LATXH	DDEDAGE TO TEST FOR PUNCTUATION.	4F13495
03504							L(10),4		
03505					MS051		CTEST•4	u .	4F13490
03506		02000					MS052	A CHARLES COME PHACTHATION	4F13400
03507		02000					MS090	CHAR IS SOME PUNCTUATIONS	4F12400
03510		00001					MS051+4+1	A CONTRACT CON COLOR CONTRACTOR CAMBOL.	4F12F00
03511		76700			MS060		36,2	X CHAR IS SOME PUNCTUATION. X POSITION CHAR FOR BUILDING SYMBOL. ADD CHAR TO THOSE IN G. UPDATE POSITIONING TAG. GET NEXT CHAR. PREPARE TO TEST FOR PUNCTUATION. X	4F13500
	-0	60200	0	01347		ORS	W50(1 0 (HIDDATE DOCITIONING TAG	4513501
03513	1	00006	2	03514			MS061+2+6	CET NEVT CHAP.	4F13502
	0	07400	4	01707	MS061		C0190,4	DEEDARE TO TEST FOR PUNCTUATION.	4F13504
03515		53400					L(10),4	PREPARE TO TEST FOR PUNCTUALIONS	4F13505
03516	_	34000			MS071				4F13506
03517		02000					MS072		4F13507
03520	0	02000	0	03545		IKA	MS091	CHAR IS SOME PUNCTUATION.	71 19901

03521	2	00001	4	03516	MS072	TIX	MS071+4+1	IF THIS IS CHAR 1, 2 /R 3 GO BUILD G. IS THIS AN F ENDING FUNCTION NAME. X MAYBE, GO LOOK AT NEXT CHAR. TEST FOR UNDER 7 CHARS. BUILD G, 7TH CHAR. TEST FOR UNDER 7 CHARS. BUILD G, 7TH CHAR. TEST FOR (X YES, THIS IS A FUNCTION NAME. NO, SAVE CURRENT CHAR. ADD F TO CONTENTS OF G. X TEST FOR 7TH CHAR, YES IS ERROR. RESTORE CURRENT CHAR. UPDATE POSITIONING TAG. CLEAR OP IS IN NEXT ELEMENT, SAVE. ADD BLANK TO CHARS IN G. X MOVE G TO E+2 AND TO G+1. X X MOVE G TO E+2 AND TO G+1. X X MOVE FUNCTION NAME TO E+2. TXH FOR LEFT SIDE, TXL FOR RIGHT SIDE. THIS IS ARITH FUNCTION STATEMENT. ENTER FUNCTION NAME IN FORSUB TABLE. ENTER FUNCTION NAME IN FORSUB TABLE. ENTER TINTERNAL FORMULA NO IN FORSUB. X X UPDATE COUNT OF ENTRIES IN FORSUB. X GET FIRST CHAR OF ARGUMENT. TEST FOR EQUAL. X GO MOVE FROM E, E+1, E+2 TO LEFT, LEFT+1++ TEST FOR ILLEGAL ARGUMENT. LEGAL, CONTINUE BEGINS NUMERIC, ERROR. COLLECT ARGUMENT NAME IN 1G. TEST CHAR FOLLOWING ARG FOR, OR) GET COUNT OF ARGUMENTS ENTER ARGUMENT NAME IN 1G. TEST CHAR FOLLOWING ARG FOR, OR) GET COUNT OF ARGUMENTS ENTER ARGUMENT NAME IN 1G. TEST CHAR FOLLOWING ARG FOR, OR) GET COUNT OF ARGUMENTS ENTER ARGUMENT NAME IN ARGREG TABLE.	4F13508
03522 -	3	00022	2	03511		TXL	MS060+2+18	IF THIS IS CHAR 1, 2 /R 3 GO BUILD G.	4513509
03523	0	34000	0	01422		CAS	L(F)	IS THIS AN F ENDING FUNCTION NAME.	4512510
03524	0	02000	0	03526		TRA	MS073	X	4513511
03525	0	02000	0	03530		TRA	M5080	MAYBE, GO LOOK AT NEXT CHAR.	4512212
03526 -	3	00044	2	03511	MS073	TXL	MS060,2,36	TEST FOR UNDER 7 CHARS.	4512512
03527	0	07400	4	03400	MS074	TSX	DIAG , 4	BUILD G. 7TH CHAR IS ERROR.	4513514
03530	0	07400	4	01707	MS080	TSX	C0190•4	GET NEXT CHAR.	4512512
03531	0	34000	0	01375		CAS	OPEN	TEST FOR (•	4512510
03532	0	02000	0	03534		TRA	MS081	Χ	4513511
03533	0	02000	0	03555		TRA	MS092	YES. THIS IS A FUNCTION NAME.	4513518
03534	0	60100	0	01331	MS081	STO	FIRSTC	NO. SAVE CURRENT CHAR.	4513519
03535 -	0	50000	0	01422		CAL	L(F)	ADD F TO CONTENTS OF G.	4F13520
03536	0	76700	2	00044		ALS	36,2	X	4F13521
03537 -	0	60200	0	01347		ORS	G	X	4F 13522
03540	3	00044	2	03527		TXH	MS074,2,36	TEST FOR 7TH CHAR, YES IS ERROR.	4F13523
03541	Õ	50000	ō	01331		CLA	FIRSTC	RESTORE CURRENT CHAR.	4513524
03542	1	00006	2	03515		IXT	MS070+2+6	UPDATE POSITIONING TAG.	4F13525
03543	õ	60000	0	01124	MS090	STZ	CHSAVE	CLEAR	4F13526
03544	Õ	02000	4	03677		TRA	TRBLKA94		4513527
03545	Õ	60200	0	01124	MS091	SLW	CHSAVE	OP IS IN NEXT ELEMENT, SAVE.	4F13528
03546 -	Ö	50000	0	01430		CAL	BLANK	ADD BLANK TO CHARS IN G.	4F13529
03547	ō	76700	2	00044		ALS	36,2	X	4F13530
03550 -	ō	60200	0	01347		ORS	G	X	4F13531
03551	ŏ	56000	Õ	01347		LDQ	G	MOVE G TO E+2 AND TO G+1.	4F13532
03552 -	ŏ	60000	ŏ	01130		STQ	E+2	X	4F13533
03553 -	Ō	60000	0	01350		STQ	G+1	Χ	4F13534
03554	0	02000	4	03727		TRA	TRBLKB,4	NOW BRANCH TO INDIVIDUAL ROUTINE	4F13535
03555 -	ŏ	75400	0	00000	MS092	PXD	•0	CLEAR	4F13536
03556	Õ	56000	0	01526		LDQ	BLANKS	ADD BLANKS TO SUBROUTINE NAME IN G.	4F13537
03557 -	0	76300	2	00052		LGL	42,2	X	4F13538
03560 -	0	50100	0	01347		ORA	G	X	4613539
03561	Õ	60200	0	01347		SLW	G	X .	4F13540
03562	0	60200	0	01130		SLW	E+2	MOVE FUNCTION NAME TO E+2.	4F13541
03563		00000	0	04026	MS093	***	MS335+0	TXH FOR LEFT SIDE, TXL FOR RIGHT SIDE.	4F13542
03564 -	0	53400	4	00470		LXD	BK • 4	THIS IS ARITH FUNCTION STATEMENT.	4F13543
03565	ō	60200	4	00471		SLW	FORSUB • 4	ENTER FUNCTION NAME IN FORSUB TABLE.	4F13544
03566 -	õ	50000	0	00030		CAL	EIFNO	ENTER INTERNAL FORMULA NO IN FORSUB.	4F13545
03567 -	Õ	32000	0	01527		ANA	MASK1	X	4F13546
03570	ŏ	60100	4	00472		STO	FORSUB+1,4	Χ	4F13547
03571	ĭ	77776	4	03572		TXI	FS010,4,-2	UPDATE COUNT OF ENTRIES IN FORSUB.	4F13548
03572 -	ō	63400	4	00470	FS010	SXD	BK • 4	X	4F13549
03573	ō	07400	4	01707	FS020	TSX	C0190+4	GET FIRST CHAR OF ARGUMENT.	4F13550
03574	ŏ	34000	Ò	01400		CAS	EQUAL	TEST FOR EQUAL.	4F13551
03575	ŏ	02000	ō	03577		TRA	FS030	X .	4F13552
03576	õ	02000	ō	03755		TRA	MS322	GO MOVE FROM E, E+1, E+2 TO LEFT, LEFT+1,+	24F13553
03577	ō	34000	Õ	01417	FS030	CAS	L(9)	TEST FOR ILLEGAL ARGUMENT.	4F13554
03600	ō	02000	0	03603	•	TRA	FS040	LEGAL, CONTINUE	4F13555
03601	3	00000	0	04427	MS9002	TXH	CM4200+0		4F13556
03602	Õ	07400	4	03400		TSX	DIAG +4	BEGINS NUMERIC, ERROR.	4F13557
03603	Ó	07400	2	01624	FS040	TSX	C0160+2	COLLECT ARGUMENT NAME IN 1G.	4F13558
03604	Õ	07400	4	03255		TSX	TESTB0•4	TEST CHAR FOLLOWING ARG FOR , OR)	4F13559
03605 -	Õ	53400	2	01122		LXD	ARGCTR • 2	GET COUNT OF ARGUMENTS	4513560
03606	0	56000	0	01112		LDQ	1G '	ENTER ARGUMENT NAME IN ARGREG TABLE.	4113561
*****	-		-						

03607	-0	60000	2	05215		STQ	ARGREG # 2	X	4F13562
03610		77777				TXI	FS050+2+-1	UPDATE COUNT OF ARGUMENTS.	4F13563
03611		63400			FS050	SXD	ARGCTR • 2		4F13564
03612		77716				TXH	FS020+2+-50	TEST FOR ARGREG TABLE OVERFLOW.	4F13565
		07400				TSX	DIAG+4	YES. ERROR.	4F13566
03614	. 0	07400	4	04470	MS200	TSX	DECPNT +4	CONVERT BCD NUMBER TO BINARY	4F13567
		07400				TSX	DIAG • 4	HOLLERITH RETURN, ERROR.	4F13568
		02000				TRA	LATXH	FLOATING POINT CONSTANT RETURN.	4F13569
03617	ŏ	76000	ŏ	00141	MS210	SLN	1	TURN , LITE ON.	4F13570
03620	-0	53400	ì	01117		LXD	3LBAR•1	PERFORM LEVEL ANALYSIS FOR ,	4F13571
		53400				LXD	ABAR 94		4F13572
		50200				CLS	ALPHA-494		4F13573
		60100				STO	LAMBDA • 1		4F13574
		50000					ADSPOP		4F13575
03625	0	60200	1	05521		SLW	LAMBDA+1+1		4F13576
		50000				CLA	NBAR		4F13577
03627	0	77100	0	00022		ARS	18		4F13578
03630	0	60100	1	05522			LAMBDA+2+1		4F13579
03631		77775					MS211,1,-3		4F13580
03632	-0	63400	1	01117	MS211		3LBAR • 1		4F13581
03633	-0	53400	1	01360			NBAR+1		4F13582
03634		63400					CBAR + 1		4F13583
03635		77777					MS212,1,-1		4F13584 4F13585
03636		63400			MS212		NBAR +1	PERFORM LEVEL ANALYSIS FOR)	4F13586
03637		00003					MS213,4,3		4F13587
		63400			MS213		ABAR • 4		4F13588
03641		02000					MS010	DEDEADN LEVEL ANALYSIS FOR 1	4F13589
		53400			MS220			PERFORM LEVEL ANALYSIS FOR)	4F13590
		50000				PAX	ALPHA-494		4F13591
		73400							4F13592
		63400					CBAR • 1 MS221 • 4 • 4		4F13593
03646	ī	00004	4	05047	MC 221		ABAR • 4		4F13594
		63400			M3221		MS020		4F13595
03650		02000	ņ	05200	MS220		ABAR +4	PERFORM LEVEL ANALYSIS FOE ENDMK.	4F13596
		53400 00003			M3230		MS231+4+3	, Em our service road and more	4F13597
03032	_2	00000	4	03655	MS221		MS232+4+0	FINISHED, HAS LEVEL BEEN REDUCED TO ZERO.	_
03654		07400			110232		DIAG • 4	NO, ERROR.	4F13599
		53400			MS232	-	ARGCTR +4	WAS THIS AN ARITH FUNCTION STATEMENT	4F13600
63656	-3	00000	4	02406			STATEC .4.0		4F13601
		50000				CAL	FSTYPE	YES. UPDATE FUNCTION TYPE AND	4F13602
		40000				ADD	L(1)	COMPLETE FORSUB ENTRY BY ASSIGNING	4F13603
		53400				LXD	BK • 1	TYPE NUMBER.	4F13604
		62100				STA	FORSUB-1:1	X .	4F13605
		60200				ORS	ARERAS	ALSO SAVE FOR LATER REFERENCE.	4F13606
03664		02000				TRA	STATEC		4F13607
		02000				TRA	MS230	ENDMK	4F13608
03666		02000				TRA	M\$260	•	4F13609
03667	0	02000	0	03617			MS210	•	4F13610
03670	0.	02000	0	03642			MS210 MS220 DIAG,4	1	4F13611
03671	0	07400	4	03400	MSERR=			•	4F13612
03672		02000					MS250		4F13613
03673		02000							4F13614
03674	0	02000	0	03614		TRA	MS200	•	4F13615
								· · · · · · · · · · · · · · · · · · ·	

	_			4F19/1/
03675 0 02000 0	03707	TRA MS250	* 6145 *	4F13616
03676 0 76700 0	00036 MS240	ALS 30	x SAAE x	4F13617
	03677 TRBLKA	BSS 0 SLW E+1 TSX C0190:4 CAS STAR TRA MS041	* SAVE * X GET NEXT CHAR. IS IT * X YES. THIS WAS **	4F13618
03677 0 60200 0	01127	SLW E+1	X	4F13619
03700 0 07400 4	01707	TSX C0190•4	GET NEXT CHAR.	4F13620
03701 0 34000 0	01405	CAS STAR	IS IT *	4F13621
03702 0 02000 0	03476	TRA MSO41	X YES, THIS WAS **	4F13622
03703 0 02000 0	03705	TRA MS241 TRA MS041 CAL STRSTR	1534 11112 HV2 44	4F13623
03704 0 02000 0	03476	TRA MSO41		4F13624
03705 -0 50000 0	01525 MS241	CAL STRSTR	REPLACE * WITH **	4F13625
03706 0 02000 0	03710	TRA MS251	X .	4F13626
03707 0 76700 0	00036 MS250	ALS 30	POSITION CHAR WHICH IS + OR - OR /	4F13627
03707 0 70700 0	01127 MC251	CIW F±1	PUT CURRENT OP IN E+1.	4F13628
03710 0 60200 0	01127 83231	TDA MEDAD	NOW GO COLLECT SYMBOL.	4F13629
03711 0 02000 0	00000 NEOCO	AL C 20	I TO SYMBOL WORD	4F13630
03712 0 76700 0	00036 M3260	ALS SU	(10 STRIDGE WORD	4F13631
03713 0 60200 0	01130	SLW E+2	A CO DEDECON LEVEL ANALYSIS FOR /	4512422
03714 0 02000 0	04074	TRA LATAL	GO PERFORM LEVEL ANALYSIS FOR (4513632
03715 0 02000 0	03726	TRA M5300	ENDMK	4513033
03716 0 02000 0	03747	TRA MS320		4713634
03717 0 02000 0	03726	TRA MS300		4513635
03720 0 02000 0	03726	TRA MS300)	4F13636
03721 0 02000 0	03767	TRA MS310	=	4F13637
03722 0 02000 0	03726	TRA MS300	•	4F13638
03723 0 02000 0	03726	TRA MS300	1	4F13639
03724 0 07400 4	03400	TSX DIAG+4	•	4F13640
03725 0 02000 0	03726	TRA MS300	•	4F13641
03726 -0 75400 0	00000 MS300	PYD AO	* CLEAR	4F13642
03/26 -0 /5400 0	00000 FISSUU	RSS 0	BASE ADDRESS FOR TAGGED TRANSFERA	4F13643
	00000	161 6	NO, GO COMPARE TO OTHER PUNCTUATION. REPLACE * WITH ** X. POSITION CHAR WHICH IS + OR - OR / PUT CURRENT OP IN E+1. NOW GO COLLECT SYMBOL. (TO SYMBOL WORD X GO PERFORM LEVEL ANALYSIS FOR (ENDMK (* * * * CLEAR BASE ADDRESS FOR TAGGED TRANSFER. GET FIRST CHAR OF SYMBOL. TEST FOR FIXED OR FLOATING POINT. FLOATING, GO PERFORM LEVEL ANALYSIS. FIXED, PREPARE FORVAR ENTRY. X MAKE FORVAR ENTRY.	4F13644
03727 -0 76300 0	00006	TCV TESTEVALA	TEST FOR FLYEN OF FLOATING POINT.	4F13645
03730 0 07400 1	03242	TOA LATY!	FLOATING GO DEDECOM LEVEL ANALYSIS	4F13646
03731 0 02000 0	04074	IKA LAIAL	FIVE DEEDADE CODYAD ENTRY	4F12647
03732 -0 50000 0	00030	CAL EIFNU	FIREDS PREPARE FURVAR ENIRIS	4513641
03733 -0 32000 0	01527	ANA MASKI	X	4513648
03734 0 60200 0	01347	SLW G	X	4F13649
03735 0 07400 1	03321	TSX TETOO,1	MAKE FORVAR ENTRY.	4F13650
03736 0 00000 0	00005	5	X .	4F13651
03737 -0 75400 0	00000	PXD •0		4F13652
03740 0 56000 0	01356	LDQ LEFT+2	GO PERFORM LEVEL ANALYSIS. CLEAR CELL FOR OP. TXH ON LEFT, TXL ON RIGHT OF = SIGN.	4F13653
03741 -0 76300 0		LGL 12		4F13654
03742 0 40200 0		SUB CALLER		4F13655
03742 -0 40200 0		TNZ LATXL		4F13656
03744 0 07400 1		TSX TETOO-1		4F13657
		TSX TETOO.1		4F13658
03745 0 00000 0		TRA LATXL	GO PEPEOPM LEVEL ANALYSIS.	4F13659
03746 0 02000 0	04074	CTT CUCAVE	CLEAD CELL EOD OD.	4F13660
	01124 MS320	SIZ CHSAVE	TVU ON LEET, TVI ON DIGHT OF - SIGN.	4F13661
	04003 MS321	*** MS33U9U	CO DOCCECE CHECOLOT COMPLIATION	4F13662
03751 0 07400 4	04450	15X 55000X+4	GU PRUCESS SUBSCRIPT CUMBINATION	
03752 0 07400 4	01707	TSX C0190+4	GET NEXT CHAK	4F13663
03753 0 40200 0	01400	SUB EQUAL	TEST FOR EQUAL SIGN.	4F13664
03754 -0 10000 0	03671	TNZ MSERR=	NO • ERROR •	4F13665
03755 0 53400 4	01411 MS322	LXA L(3),4	MOVE CONTENTS OF E WORDS TO LEFT WORDS.	4F13666
03754 -0 10000 0 03755 0 53400 4 03756 0 56000 4	01131 MS323	LDQ E+3,4	GO PERFORM LEVEL ANALYSIS. CLEAR CELL FOR OP. TXH ON LEFT, TXL ON RIGHT OF = SIGN. GO PROCESS SUBSCRIPT COMBINATION. GET NEXT CHAR. TEST FOR EQUAL SIGN. NO. ERROR. MOVE CONTENTS OF E WORDS TO LEFT WORDS. X X	4F13667
03757 -0 60000 4	01357	STQ LEFT+3,4	X	4F13668
03760 2 00001 4	03756	TIX M5323,4,1	X	4F13669
J. 100 2 00001 4				

U

03761	-0	50000	0	00415	MS311	CAL	TXLOP	SET SWITCHES FOR RIGHT SIDE SCAN.	4F13670
03762	ŏ	63000	ŏ	03563		STP	MS093	X	4F136/1
03763	ŏ	63000	٥	03767		STP	MS310	X	4F13672
03764	ŏ	63000	Õ	03750		STP	MS321	X .	4F13673
03765	ŏ	76000	Õ	00141		SLN	1	TURN = OR) LITE ON.	4F 13674
03766	ŏ	02000	Ŏ	03463		TRA	MS010	GO SCAN NEXT ELEMENT.	4F13675
03767	•	00000	õ	03671	MS310	***	MSERR= +0	TXH FOR LEFT. TXL FOR RIGHT OF EQUAL SIGN.	4F13676
03770	0	60000	Ŏ	01124		STZ	CHSAVE	CLEAR	4F13677
03771	-0	75400	Ŏ	00000		PXD	•0	CLEAR AC.	4F136775
03772	-0	76300	ŏ	00006		LGL	6	GET FIRST CHAR OF SYMBOL.	4F13678
03773	ŏ	07400	ĭ	03242		TSX	TESTFX+1.1	TEST FOR FIXED OR FLOATING POINT	4F13679
03774	ŏ	02000	ō	03755		TRA	MS322	FLOATING,	4F13680
03775	-0	50000	ŏ	00030		CAL	EIFNO	FIXED, PREPARE FORVAL ENTRY.	4F13681
03776	-0	32000	Ŏ	01527		ANA	MASK1	X	4F13682
03777	ŏ	60200	Ö	01347		SLW	G	Χ	4513683
04000	Õ	07400	ĭ	03321		TSX	TET00+1	MAKE FORVAL ENTRY.	4F13684
04001	ŏ	00000	ō	00006			6	X	4513685
04002	ŏ	02000	0	03755		TRA	MS322		4713686
04003	Õ	07400	4	01771	MS330	TSX	DIM1SR•4	SEARCH FOR THIS NAME IN THE DIMI DIME	4513687
04004	Õ	02000	0	04006		TRA	MS331	AND DIM3 TABLES. IF IT IS FOUND IN ONE OF	4513688
04005	ō	02000	0	04013		TRA	MS333	THESE TABLES IT IS A SUBSCRIPTED VARIABLE	4F13689
04006	Ō	07400	4	01775	MS331	TSX	DIM2SR•4	OF THAT NUMBER OF DIMENSIONS. IF IT IS NOT	4F13690
04007	ō	02000	0	04011		TRA	MS332	FOUND IN ANY DIMENSION TABLE THEN IT IS	4513691
04010	0	02000	0	04013		TRA	MS333	ASSUMED TO BE THE NAME OF A FORTKAN II	4513692
04011	0	07400	4	02005	MS332	TSX	DIM3SR•4	SUBROUTINE OR FUNCTION COMPILED SEPARATELY	4512693
04012	0	02000	0	04015		TRA	MS334	X	4513694
04013	0	07400	4	04450	MS333	TSX	SS000X•4	GO PROCESS SUBSCRIPT COMBINATION	4512692
04014	0	02000	0	04076		TRA	LATXH	GO PERFORM LEVEL ANALYSIS.	4513696
04015	-0	50000	0	01471	MS334	CAL	FNIND	NOT FOUND, TREAT AS FUNCTION NAME.	4513691
04016	0	60200	0	05303		SLW	FNBITS -	X	4513698
04017	-0	75400	0	00000		PXD	•0	X	4F12699
04020	0	56000	C	01526		LDQ	BLANKS	COMPLETE NAME WITH BLANKS.	4F13700
04021	-0	76300	2	00052		LGL	42,2	X	4F13701
04022	-0	60200	0	01347		ORS	G	X .	4F13702
04023	-0	60200	0	01130		ORS	E+2	A SUTED MANE IN CLOSUR TARLE.	4F13704
04024	. 0	07400	1	03321		TSX	TET00+1	ENTER NAME IN CLUSUD TABLES	4F13705
04025	0	00000	0	00011			9	THOM SHACTION LITE ON	4F13706
04026	0	76000	0	00142	MS335	SLN	2	TORN FUNCTION LITE ON	4F13707
04027	0	02000	0	04074		TRA	LATXL	CLEAD CHEAVE	4F13708
04030	0	60000	0	01124	HOLL	STZ	CHSAVE	CET CHODENT HIAI WOOD	4F13700
04031	-0	50000	0	01352		CAL	HOLCNT	GET CORRENT HITT WORD	4F13710
04032	0	60200	0	01130		SLW	E+2	CET MUMBED OF CHARACTERS IN THIS ARG	4F13711
04033	0	53400	2	01103		LXA	N • 2	CET CUPPENT DESIDUE CHAR COUNT	4F13712
04034	-0	53400	4	01724		LXD	CHC1K+4	GET CHIPDENT DESIDEL WORD	4F13713
04035	0	56000	0	01365		LDQ	RESIDU	CET TO COLLECT SIX CHARS	4F13714
04036	0	53400	1	01414	C3351	LXA	F(0) 11	CLEAD AC	4F13715
04037	-0	75400	0	00000		PXD	0.0	TEST FOR NO MORE CHARS IN RESIDU	4F13716
04040	-2	00001	4	04053	C3352	TNX	(3354,4,1	CET MEYT CHAD	4F13717
04041	-0	76300	0	00006	C33525	LGL	6	SEI NEAI CHAR ETARE WARD	4F13718
04042	0	60200	0	01112		\$LW	16	DIANK WILL EXCEDT CHODENT CHAD	4F13719
04043	-0	32000	0	01374		ANA	ENDMK	DEATH ALL EXCEPT CORREST CHAR	4F13720
04044	0	40200	0	01374		SUB	ENDMK	IESI PUK INTERNAL ENDEN	4F13721
04045	-0	10000	0	04047		TNZ	C3353	MEE EDDON GO TO DIAGNOSTIC	4F13722
04046	0	07460	4	03400		TSX	DIAG 94	SET SWITCHES FOR RIGHT SIDE SCAN. X X TURN = OR) LITE ON. GO SCAN NEXT ELEMENT. TXH FOR LEFT, TXL FOR RIGHT OF EQUAL SIGN. CLEAR CLEAR AC. GET FIRST CHAR OF SYMBOL. TEST FOR FIXED OR FLOATING POINT FLOATING, FIXED, PREPARE FORVAL ENTRY. X MAKE FORVAL ENTRY. X SEARCH FOR THIS NAME IN THE DIM1, DIM2, AND DIM3 TABLES. IF IT IS FOUND IN ONE OF THESE TABLES IT IS A SUBSCRIPTED VARIABLE OF THAT NUMBER OF DIMENSIONS. IF IT IS NOT FOUND IN ANY DIMENSION TABLE THEN IT IS ASSUMED TO BE THE NAME OF A FORTRAN II SUBROUTINE OR FUNCTION COMPILED SEPARATELY. X GO PROCESS SUBSCRIPT COMBINATION. GO PERFORM LEVEL ANALYSIS. NOT FOUND, TREAT AS FUNCTION NAME. X COMPLETE NAME IN CLOSUB TABLE. X ENTER NAME IN CLOSUB TABLE. X CLEAR CHSAVE GET CURRENT H(+I WORD GET NUMBER OF CHARACTERS IN THIS ARG GET CURRENT RESIDUE CHAR COUNT GET TO COLLECT SIX CHARS CLEAR AC TEST FOR NO MORE CHARS IN RESIDU GET NEXT CHAR STORE WORD BLANK ALL EXCEPT CURRENT CHAR TEST FOR INTERNAL ENDMK YES, ERROR, GO TO DIAGNOSTIC.	7. 17166

04047 -0 500	00 0 01112	C3353 CAL	1G C3358+2+1 C3356+1+1 C3352 FWA+4 O+4	RETREIVE WORD	4F13723 4F13724
04050 -2 000		TNX	C3358,2,1	TEST FOR ALL CHARS COLLECTED TEST FOR SIX CHARS COLLECTED	4F13725
04051 -2 000		TNX	C3356+1+1	NOT SIX CHARS YET. CONTINUE COLLECTIN	
04052 0 020		TRA	C3352	LOAD MQ WITH NEXT F REGION WORD	AF13727
04053 -0 534		C3354 LXD	FWA 9 4	FOUND ME MILL MEXI & KEGION MOND	4F13728
04054 0 560		LDQ	0 • 4	HENATE CHA	4F13729
04055 1 777	77 4 04056	IXI	C3355,4,-1	UPDATE FWA	4F13730
04056 -0 634	00 4 01614	C3355 5XD	FWA 9 4	RESET MQ CHAR COUNT TO SIX	4F13731
04057 0 534	00 4 01414	LXA	L(0)94	CONTINUE COLLECTING	4F13732
04060 0 020	00 0 04041	IKA	(33525	RESET MQ CHAR COUNT TO SIX CONTINUE COLLECTING GO TO ENTER WORD IN HOLARG TABLE RETURN TO CONTINUE COLLECTING UPDATE RESIDU UPDATE CHCTR TEST FOR SIX CHARS IN AC, DEC IR1 NOT SIX CHARS, PREPARE TO ADD BLANKS ADD BLANKS GO TO ENTER WORD IN HOLARG TABLE	
04061 0 074	00 1 04437	C3356 15X	C3351-0-##	RETURN TO CONTINUE COLLECTING	4F13734
04062 1 000	00 0 04036	C3357 1X1	(3321+0+××	UPDATE RESIDU	4F13735
04063 -0 600	00 0 01365	(3358 510	CHCTD. A	HIDDATE CHCTP	4F13736
04064 -0 634	00 4 01/24	SAD	C2260-1-1	TEST FOR SIX CHARS IN AC, DEC IR1	4F13737
04065 -2 000	01 1 04071	100	C22004141	NOT SIX CHARS, PREPARE TO ADD BLANKS	4F13738
04066 0 560	00 0 01526	C3350 161	6 BLANKS	ADD RIANKS	4F13739
04067 -0 763	01 1 00000	COODY LUL	C2250-1-1	GO TO ENTER WORD IN HOLARG TABLE GET WORD OF ONES GO TO ENTER WORD IN HOLARG TABLE	
04070 2 000	01 1 04067	C2260 TSV	C3300-1	GO TO ENTER WORD IN HOLARG TABLE	4F13741
04071 9 074	00 1 04437	(3360 134	AL 1 1	GET WORD OF ONES	4F13742
04072 -0 500	00 0 01551	TCV	C2200-1	GO TO ENTER WORD IN HOLARG TABLE	4F13743
04073 0 074	00 1 04437	134	I EVEL ANALYST	to to fulfix hours in hearing there	4F13744
04074 -0 E00	00 0 00415	LATYL CAL	TYLOP		4F13745
04074 -0 500	00 0 00413	TDA	IATYI +3		4F13746
04075 0 020	00 0 04077	IATXH CAL	TYHOP		4F13747
04075 -0 500	00 0 00422	STP	CM4105		4F13748
04011 0 630	00 0 04424	LADODO LXA	1 (0) •A		4F13749
04100 0 554	00 1 01400	CLA	E+2		4F13750
04102 -0 760	00 0 00142	SLT	2	IS THIS A FUNCTION NAME	4F13751
04103 0 020	00 0 04144	TRA	LA0000+36	NO	4F13752
04104 0 760	00 0 00142	SLN	2	YES - TURN F LITE BACK ON	4F13753
04105 -0 534	00 4 00470	LXD	BK • C	IS FORSUB EMPTY	4F13754
04106 -3 000	00 4 04115	TXL	LA0000+13+C+0	YES. GO SET FS BITS TO 0	4F13755
04107 -0 634	00 4 04114	SXD	LA0000+12+C		4F13756
04110 0 340	00 1 00471	CAS	FORSUB + A	SEARCH FN NAME IN FORSUB	4F13757
04111 1 777	76 1 04114	TXI	LA0000+12+A+-2	f .	4F13758
04112 0 020	00 0 04117	TRA	LA0000+15	·	4F13759
04113 1 777	76 1 04114	TXI	LA0000+12+A+-2		4F13760
04114 3 000	00 1 04110	TXH	LA0000+8+A+0	GO TO ENTER WORD IN HOLARG TABLE GET WORD OF ONES GO TO ENTER WORD IN HOLARG TABLE IS THIS A FUNCTION NAME NO YES — TURN F LITE BACK ON IS FORSUB EMPTY YES. GO SET FS BITS TO 0 SEARCH FN NAME IN FORSUB SET FSBITS TO 0 FN NAME IN FORSUB EXTRACT TYPE NUMBER IS THIS A FUNCTION STATEMENT	4F13761
04115 0 600	00 0 05302	STZ	FSBITS	SET FSBITS TO 0	4F13762
04116 0 020	00 0 04131	TRA	LA0000+25		4F13763
04117 -0 500	00 1 00472	CAL	FORSUB+1.A	FN NAME IN FORSUB	4F13764
04120 -0 320	00 0 01452	ANA	MASK2	EXTRACT TYPE NUMBER	4F13765
04121 -0 534	00 4 01122	LXD	ARGCTR • C	IS THIS A FUNCTION STATEMENT	4F13766
04122 -3 000			LA0000+22+C+0	FN NAME IN FORSUB EXTRACT TYPE NUMBER IS THIS A FUNCTION STATEMENT NO YES - UPDATE FS TYPE	4F13767
04123 0 340			FSTYPE	YES - UPDATE FS TYPE	4F13768
04124 0 621			FSTYPE		4F13769
04125 3 000	00 0 00000		0,0		4F13770
04126 0 767		ALS	7		4F13771
04127 -0 501	00 0 01464		FSIND		4F13772
04130 0 602	00 0 05302		FSBITS	LOAD LA COUNTERS	
04131 -0 534			3LBAR•A	LOAD LA COUNTERS	4F13774 4F13775
04132 -0 534			NBAR .B		
04133 -0 534	00 4 05300	LXD	ABAR • C		4F13776

										45.0000
		00000					LA0003+A+0			4F13777
		75520					LA0001+A+-1200		FROOD 3 4400 A 2401 F FYCEFOED	4F13778
04136	0	07400	4	03400			DIAG,4		ERROR. LAMBDA TABLE EXCEEDED.	4F13779
						TXH	LA0002.B301		EDOAD DETA TABLE EVERDED	4F13780
04140	0	07400	4	03400		TSX	DIAG+4		ERROR.BETA TABLE EXCEEDED	4F13781
04141	-3	00000	4	04160	LA0002	TXL	LA0003+C+0			4F13782
		77565				TXH	LA0003 . C 139 DIAG . 4		EDDOD 41 014 7401 E EVEEEDED	4F13783
		07400				TSX	DIAG 94		ERROR.ALPHA TABLE EXCEEDED	4F13784
		53400				LXD	ARGCTR+C	Y	AKIABLE OK I	4F13785
		00000				17	PUCCOLTOICIO	,,,	01 AR 13 - 00 SET 13 B113 TO 0	4F13786
		63400					LA0000+43 •C	-	UNCTION STATEMENT	4F13787 4F13788
		34000					ARGREG , A	5	EARCH FREE VARIABLE TABLE	
04150	1	77777	1	04153			LA0000+43+A+-1			4F13789
04151	0	02000	0	04155			MS1018			4F13790
04152	1	77777	1	04153			LA0000+43.A1			4F13791
04153	3	00000	1	04147			LA0000+39,A,0		OT PRESENT - CO SET ESPITS TO A	4F13792
04154	0	02000	0				LA0000+13	P.	OT PRESENT - GO SET FSBITS TO 0 RESENT - STORE TYPE IN FSBITS	4F13793 4F13794
				00000	MS1018	PXD	UAA	-	RESENT - STORE TIPE IN FSBITS	4F13795
04156	0	77100	0	00013		ARS	11			4F13796
04157	0	02000	0	04127		IKA	LAU0UU+23			4F13797
04160	0	50000	0	03601	LA0003	CLA	M39002		•	4F13798
04161	0	62100	0	04366		21 A	LA4320		•	4F13799
04162	-0	75400	0	00000		100	5.2			4F13800
04163	0	56000	0	01130		CTO	ETZ			4F13801
		60000		05533		510	LAMBDATITA		•	4F13802
		60000		05530		510	LAMBDALEA			4F13803
		60000		05525		310	LAMBDATSIA		•	4F13804
04167	-0	76300	0	00006		LG'-	6 FIRSTS		•	4F13805
04170	0	60100	0	01331		310	FIRSIC			4F13806
04171	0	40200	Ō	01375		30B	1 A003			4F13807
04172	0	10000	Ö	04201		726	MSA007			4F13808
		50000		00143		SIT	2			4F13809
04174	-0	76000	Ö	00142		TDA	1 4003			4F13810
04175	Ö	02000	Ö	04200		CIN	2			4F13811
04176	Ŏ	76000	0	00142		CLA	EINIA2			4F13812
04177	Ö	50000	ò	04221	LA002	STA	1 44320		• .	4F13813
04200	ŭ	62100	Ň	04300	LA003	CLA	E			4F13814
04201	0	60100	1	01120	LAUUJ	STO	LAMBDA+9+A			4F13815
04202	0	60100 60100	1	05524		STO	LAMBDA+6+A		RESENT - STORE TYPE IN FSBITS	4F13816
04203	0	60100	1				LAMBDA+3.A			4F13817
04204	-0	50000	â	01522			ADSPOP			4F13818
04203	-0	60200	ĭ	05535			LAMBDA+13.A			4F13819
04207	Õ	60200	î	05532		SLW	LAMBDA+10+A		·	4F13820
04201	6	60200	î	05527		SLW	LAMBDA+7.A			4F13821
04211	-0	75400	ô	00000		PXD	LAMBDA+10+A LAMBDA+7+A +0 E+1 LAMBDA+1+A			4F13822
04212	-0	56000	õ	01127		LDQ	E+1			4F13823
04212	-0	60000	ĭ	05521		STO	LAMBDA+1+A			4F13824
04214	_0	76300	ñ	00006		LGL	6			4F13825
04214	-0	34000	õ	01405			STAR			4F13826
04212	0	02000	ก	04262			LA0015	1	SIGN	4F13827
04217	0	02000	õ	04252			LA0010	*	SIGN OR ** SIGN	4F13828
04220	-0	76000	n	00142		SLT			SIGN OR ** SIGN OR - SIGN	4F13829
04220	0	02000	ñ	04236			LA0044			4F13830
A4551	_	1200	•							

04222 1 77775 2 04223	TXI	MS1033+B+-3	-N TO -(N+3) STO (N+3) IN LAMBDA+3 (L+4)+2 -(N+3) TO - (N+2)	4F13831
04223 -0 75400 2 00000	MS1033 PXD	•B		4512022
04224 0 77100 0 00022	ARS	18		4512022
04225 0 60100 1 05536	STO	LAMBDA+14+A	STO (N+3) IN LAMBDA+3 (L+4)+2	4512025
04226 1 00001 2 04227	TXI	FINIO3+B+1	-(N+3) TO $-(N+2)$	4513033
04227 -0 75400 2 04432	FINIO3 PXD	CM4300+B		4512027
04230 0 77100 0 00022	ARS	18	·	4513030
04231 -0 76000 0 00003	\$SM			4F12020
04232 0 60100 1 05534	STO	LAMBDA+12+A	STO -(N+2) IN LAMBDA+3 (L+4)	4F13037
04233 -0 76000 0 00141	LA0041 SLT	1		4513040
04234 1 00001 2 04330	TXI	L43130.B.1	UNARY • • • - (N+2) 10 - (N+1)	4F13041
04235 1 00001 2 04272	IXT	L13130.B.1	BINARY*** - (N+2) TO - (N+1)	4F13042
04236 0 50000 0 01331	LA0044 CLA	FIRSTC		4F13844
04237 0 34000 0 01375	ÇAS	OPEN	EXAMINE SYMBOL	4F13845
04240 0 02000 0 04242	TRA	LA0050		4F13846
04241 1 77775 2 04245	TXI	LA0058,B,-3	-N TO -(N+3)	4F 13847
04242 -0 76000 0 00141	LA0050 SLT	1		4F13848
04243 1 77777 2 04334	IXI	LA4000 +B +-1	UNARY ••• -NIO -(N+1)	4F13840
04244 1 77777 2 04276	TXI	LA1000+B+-1	BINARY • • • -N 10 - (N+1)	AF13850
04245 -0 75400 2 00000	LA0058 PXD	•B		4F13851
04246 0 77100 0 00022	ARS	18	CTO CANADA AN AMBRA 42/142142	4F13852
04247 0 60100 1 05533	STO	LAMBDA+11.A	SIO S(N+3) IN LAMBDA TOLLTOITE	4F13853
04250 0 40000 0 01407	ADD	L(1)	FORM -(N+2) IN ADD (ACC)	4F13854
04251 1 00001 2 04233	IXI	LA0041,2,1	CO TO * POUTINE	4F13855
04252 0 16200 0 04262	LAOO10 TOP	LA0015	GO TO * KOOTING	4F13856
04253 -0 76000 0 00142	SLI	2	**	4F13857
04254 0 02000 0 04256	TRA	LA0072	-N TO -/N+11	4F13858
04255 1 77777 2 04311	IXI	[53000 +B +-1	-N 10 -(N+1)	4F13859
04256 0 50000 0 01331	LAGO72 CLA	FIRSIC		4F13860
04257 0 40200 0 01375	508	UPEN		4F13861
04260 -0 10000 0 04324	INZ	LA2000	-N TO -(N+1)	4F13862
04261 1 77777 2 04304	171	L22000+B+-1	+ ND /	4F13863
04262 -0 76000 0 00142	FWOOTS SEE	1 40031	- OK /	4F13864
04263 0 02000 0 04265	TVI	LAUUZI L 33000 - R 2	-N TO -(N+2)	4F13865
04264 1 77776 2 04374	140021 (14	EIDSTC	N 10 1	4F13866
04265 0 50000 0 01331	LAUUZI CLA	ODEN		4F13867
04266 0 34000 0 01375	TYI	LA3000+R+=1		4F13868
04267 1 111111 2 04407	TYT	1 32000 • B • = 2	-N TO -N(+2)	4F13869
04270 1 77777 2 04407	TYI	LA3000+B+-1		4F13870
04211 1 11111 2 04401	1 1 3 1 3 0 SIW	ALPHA+3.C	STO -(N+2) IN ALPHA+A+3	4F13871
04272 0 60200 4 05510	CLS	1 (0)		4F13872
04273 0 50200 0 01400	570	I AMBDA+9 • A	STO -O IN LAMBDA +3(L+3)	4F13873
04274 0 60100 1 09991	SLN	1		4F13874
04275 0 70000 0 00141	1 4 1 0 0 CL S	CBAR		4F13875
04276 0 30200 0 03277	ARS	18		4F13876
04277 0 77100 0 00022	SLW	ALPHA • C	STO -C IN ALPHA+A	4F13877
04300 0 00200 4 00300	TXI	LA1040,C,-3	-A TO - (A+3)	4F13878
04302 -0 63400 4 05300	LA1040 SXD	ABAR + C	STO (N+3) IN LAMBDA+3 (L+4)+2 -(N+3) TO - (N+2) STO -(N+2) IN LAMBDA+3 (L+4) UNARY(N+2) TO -(N+1) BINARY(N+2) TO - (N+1) EXAMINE SYMBOL -N TO -(N+3) UNARYN TO -(N+1) BINARYN TO -(N+1) STO S(N+3) IN LAMBDA +3(L+3)+2 FORM -(N+2) IN ADD (ACC) GO TO * ROUTINE ** -N TO -(N+1) + OR / -N TO -(N+2) STO -(N+2) IN ALPHA+A+3 STO -0 IN LAMBDA +3(L+3) STO -C IN ALPHA+A -A TO - (A+3) STO S(N+1) IN LAMBDA+3(L+1)+2	4F13879
04303 0 02000 0 04335	TRA	LA4010		4113880
04304 -0 75400 2 00000	L22000 PXD	•B		4513881
04305 0 77100 0 00022	ARS	18		4513003
04306 0 60100 1 05525	STO	LAMBDA+5+A	STO S(N+1) IN LAMBDA+3(L+1)+2	4F1200/
04307 0 40000 0 01407	ADD	L(1)		4712004
•		-		

									AF12095
04310	1	00001	2	04320		TXI	L23130,B,1	-(N+1) 10 -N ·	4F13886
04311	-0	75400	2	00000	L23000	PXD	•B		4F13887
04312	0	77100	0	00022		ARS	18	CTO CANADA AND AND AND AND AND AND AND AND AN	41 13001
04313	0	60100	1	05530		STO	LAMBDA+8 • A	SIU S(N+I) IN LAMBUATS(LTZ)TZ	4F13890
04314	0	40000	0	01407	•	ADD	L(1)	•	4F12007
04315	-0	76000	0	00003	-	SSM			4513001
04316	1	00001	2	04317		TXI	L23090 + B + 1	-(N+1) TO -N	4513003
04317	0	60100	1	05526	L23090	STO	LAMBDA+6 • A	STO -N IN LAMBDA+3(L+2)	4513072
04320	0	60200	4	05305	L23130	SLW	ALPHA+C	STO -N IN ALPHA +A	4512004
04321	0	50200	0	01406		CLS	L(0)		4513894
04322	0	60100	1	05523		STO	LAMBDA+3+A	STO -0 IN LAMBDA+3(L+1)	4513893
04323	0	76000	0	00141		SLN	1		4513896
04324	0	50200	4	05304	LA2000	CLS	ALPHA-1,C		4513897
04325	0	60100	1	05520		STO	LAMBDA • A	STO C(ALPHA+A-1) IN LAMBDA+3L	4513898
04326	0	50000	0	01360		CLA	NBAR		4513899
04327	1	00006	1	04355		TXI	LA4180+A+6	·	4F13900
04330	0	60200	4	05305	L43130	SLW	ALPHA • C	STO -(N+2) IN ALPHA+A	4F13901
04331	0	50200	0	01406		CLS	L(0)		4F13902
04332	0	60100	1	05531		STO	LAMBDA+9+A	STO -O IN LAMBDA+3(L+3)	4F13903
04333	0	76000	0	00141		SLN	1		4F13904
04334	0	50200	4	05302	LA4000	CLS	ALPHA-3.C		4F13905
04335	. 0	60100	1	05520	LA4010	STO	LAMBDA .A	STO C(ALPHA+A-3) IN LAMBDA+3L	4F13906
04336	ŏ	50200	ō	01360		CLS	NBAR		4F13907
04337	Õ	77100	٥	00022		ARS	18		4F13908
04240	ō	60200	4	05303		SLW	ALPHA-2.C	STO-N IN ALPHA+A-2	4F13909
04240	ñ	60200	i	05522		SLW	LAMBDA+2+A	STO S(N) IN LAMBDA+3L+2	4F13910
04342	۵	60100	ī	05523		STO	LAMBDA+3+A	STO -N IN LAMBDA+3(L+1)	4F13911
04342	-0	75400	2	00000		PXD	•B		4F13912
04244	ō	77100	õ	00022		ARS	18		4F13913
04345	ñ	60100	ī	05525		STO	LAMBDA+5 +A	STO S(N+1) IN LAMBDA+3(L+1)+2	4F13914
04246	ñ	60100	ī	05304		STO	ALPHA-1.C	STO-(N+1) IN ALPHA+A-1	4F13915
04347	-0	76000	ñ	00003		SSM			4F13916
04341	ā	60100	ĭ	05526		STO	LAMBDA+6 .A	STO -(N+1) IN LAMBDA+3(L+2)	4F13917
04350	1	77777	•	04352		TXI	LA4150+B+-1	-(N+1) TO $-(N+2)$	4F13918
04331	-0	50000	ñ	01524	1 44150	CAL	ADSTAR		4F13919
04352	-0	60200	ĭ	05524		SLW	LAMBDA+4 .A	STO * IN LAMBDA+3(L+1)+1	4F13920
04333	-0	75400	•	00000	1 44170	PXD	▲B		4F13921
04374	-0	77100	~	00000	1 44180	ARS	18	•	4F13922
04355	~	40100	7	05530	27,1200	STO	LAMBDA+8 • A	STOS(N+2) IN LAMBDA+3(L+2)+2	4F13923
04330	0	60100	ì	05531		ORS	LAMBDA+9 • A	STO -(N+2) IN LAMBDA+3(L+3)	4F13924
04221	-0	50000	ā	01525		CAL	STRSTR		4F13925
04260	~~	40200	1	05527		SLW	LAMBDA+7+A	STO SPOP IN LAMBDA+3(L+2)+1	4F13926
04361		50000	Ţ	01522	-	CAL	ADSPOP		4F13927
04362	-0	50100	0	01322		ORA	FSBITS		4F13928
04363	-0	20100	ž	05302		ORA	ENRITS		4F13929
04364	-0	20100	٦	05505		SIW	I AMBDA+10.A	STO SPOP IN LAMBDA+3(L+3)+1	4F13930
04365	Ü	00200	Ť	00000	1 44220	TYI	***A***		4F13931
04366	I.	11161	Ţ	00000	1 22000	D A D	-B	· ·	4F13932
04367	-0	75400	2	00000	L 32000	LVA	10		4F13933
04370	0	17100	ó	00022		CTO	I AMBDA+8-A	STO 5(N+2) IN LAMBDA+3(L+2)+2	4F13934
04371	0	60100	Ţ	05530		210	L / 1 1	Ata Minist to Bumbaniate et	4F13935
04372	0	40000	0	01407		TYT	· L 1 2 1 2 0 4 R - 1	-(N+2) TO -(N+1)	4F13936
04373	1	00001	2	04403		IXI	L331301011	111167 10 111121	4F13937
04374	-0	75400	2	00000	L33000	ADC	10		4F13938
04375	0	77100	0	00022		AKS	10	-(N+1) TO -N STO S(N+1) IN LAMBDA+3(L+2)+2 -(N+1) TO -N STO -N IN LAMBDA+3(L+2) STO -N IN ALPHA +A STO -O IN LAMBDA+3(L+1) STO C(ALPHA+A-1) IN LAMBDA+3L STO -(N+2) IN ALPHA+A STO -O IN LAMBDA+3(L+3) STO C(ALPHA+A-3) IN LAMBDA+3L STO-N IN ALPHA+A-2 STO S(N) IN LAMBDA+3(L+1) STO S(N+1) IN LAMBDA+3(L+1) STO -(N+1) IN LAMBDA+3(L+1)+2 STO-(N+1) IN LAMBDA+3(L+1)+2 STO-(N+1) IN LAMBDA+3(L+2) -(N+1) TO -(N+2) STO * IN LAMBDA+3(L+1)+1 STOS(N+2) IN LAMBDA+3(L+2)+2 STO -(N+2) IN LAMBDA+3(L+2)+1 STO SPOP IN LAMBDA+3(L+2)+1 STO SPOP IN LAMBDA+3(L+2)+1	

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4F13939
                                                     STO S(N+2) IN LAMBDA+3(L+3)+2
                              STO LAMBDA+11.A
      0 60100 1 05533
04376
                                                                                                 4F13940
                               ADD L(1)
04377
       0 40000 0 01407
                                                                                                 4F13941
04400 -0 76000 0 00003
                               SSM
                                                                                                 4F13942
                                                     -(N+2) TO -(N+1)
                               TXI L33090.8.1
      1 00001 2 04402
                                                                                                 4F13943
                                                     STO -(N+1) IN LAMBDA+3(L+3)
       0 60100 1 05531 L33090 STO LAMBDA+9+A
                                                                                                 4F13944
                                                     STO -(N+1) IN ALPHA+A
       0 60200 4 05305 L33130 SLW ALPHA+C
                                                                                                 4F13945
                               CLS L(0)
       0 50200 0 01406
04404
                                                                                                 4F13946
                               STO LAMBDA+6,A
       0 60100 1 05526
04405
                                                                                                 4F13947
                               SLN 1
       0 76000 0 00141
04406
                                                                                                 4F13948
       0 50200 4 05303 LA3000 CLS ALPHA-2.C
04407
                                                                                                 4F13949
                                                     STO C(ALPHA+A-2) IN LAMBDA+3L
                               STO LAMBDA .A
04410
       0 60100 1 05520
                                                                                                 4F13950
                               CLS NBAR
       0 50200 0 01360
04411
                                                                                                 4F13951
      0 77100 0 00022
                               ARS 18
04412
                                                                                                 4F13952
                                                     STO -N IN ALPHA+A-1
                               SLW ALPHA-1,C
04413 0 60200 4 05304
                                                                                                 4F13953
                                                     STO S(N) IN LAMBDA+3L+2
                               SLW LAMBDA+2,A
       0 60200 1 05522
04414
                                                                                                 4F13954
                                                     STO -N IN LAMBDA+3(L+1)
                               STO LAMBDA+3,A
      0 60100 1 05523
04415
                                                                                                 4F13955
                               TXI LA4170,A,3
      1 00003 1 04354
                                                                                                 4F13956
                                                     LA COUNTER MODIFICATION ROUTINES
04417 1 77775 1 04420 CM4100 TXI CM4101,A,-3
                                                                                                 4F13957
04420 -0 63400 1 01117 CM4101 SXD 3LBAR+A
                                                                                                 4F13958
04421 -0 63400 2 05277 CM4102 SXD CBAR+B
                                                                                                 4F13959
                               TXI CM4104,B,-1
04422 1 77777 2 04423
                                                                                                 4F13960
04423 -0 63400 2 01360 CM4104 SXD NBAR B
                                                                                                 4F13961
         00000 0 03463 CM4105 *** MS010+0
04424
                                                                                                 4F13962
04425 -0 50000 0 01524 MS020 CAL ADSTAR
                                                                                                 4F13963
                               TRA MS030
04426 0 02000 0 03464
                                                                                                 4F13964
04427 1 77775 1 04430 CM4200 TXI CM4201+A+-3
                                                                                                 4F13965
04430 -0 63400 1 01117 CM4201 SXD 3LBAR+A
                                                                                                 4F13966
                               TXI CM4303,C,-1
04431 1 77777 4 04435
                                                                                                 4F13967
04432 1 77772 1 04433 CM4300 TXI CM4301.A.-6
                                                                                                 4F13968
04433 -0 63400 1 01117 CM4301 SXD 3LBAR+A
                                                                                                 4F13969
                               TXI CM4303 • C • - 1
04434 1 77777 4 04435
                                                                                                 4F13970
04435 -0 63400 4 05300 CM4303 SXD ABAR +C
                                                                                                 4F13971
04436 1 77777 2 04421
                               TXI CM4102,B,-1
                                                                                                *4F13972
                                                                                                 4F13973
                                                                                                 4F13974
                                   CLOSED SUBROUTINE TO MAKE ENTRIES IN HOLARG TABLE
                                                                                                 4F13975
                                                          SAVE CALLING IR
04437 -0 63400 1 04062 C3390
                               SXD C3357+1
                                                          MOVE WORD TO BE ENTERED TO 1G
                                                                                                 4F13976
                               SLW 1G
      0 60200 0 01112
04440
                                                          GO TO ENTER WORD IN HOLARG TABLE
                                                                                                 4F13977
                               TSX TETOO,1
      0 07400 1 03321
04441
                                                                                                 4F13978
                                   13
04442
       0 00000 0 00015
                                                                                                 4F13979
                               CLA HOLCNT
04443
       0 50000 0 01352
                                                                                                 4F13980
                                                          UPDATE HOLCNT
                               ADD L(1)
      0 40000 0 01407
                                                                                                 4F13981
                               STO HOLCNT
04445 0 60100 0 01352
                                                                                                 4F13982
                                                          RELOAD CALLING IR
                               LXD C3357+1
04446 -0 53400 1 04062
                                                                                                 4F13983
                                                           RETURN TO CALLER+1
04447 0 02000 1 00001
                               TRA 1:1
                                                                                                #4F13984
                                                                                                 4F13985
                                   PROGRAM TO SIMPLIFY THE TREATMENT OF RELATIVE ADDRESSES IN
                                   SECTION ONE THRU THE USE OF THE RADOO SUBROUTINE BY STATE B. 4F13987
                                                                                                 4F13988
                                                     SAVE CALLING TAG.
04450 -0 63400 4 04503 SS000X SXD SSIR4+4
                                                     GO TO SUBSCRIPT SCAN AND ANALYSIS ROUTINE. 4F13989
                               TSX 55000,4
04451 0 07400 4 02614
                                                     GO TO RELATIVE ADDRESS COMPUTATION ROUTINE. 4F13990
                               TSX RA000.4
04452 0 07400 4 02437
                                                                                                 4F13991
                               CAL GTAG
04453 -0 50000 0 01351
                                                                                                 4F13992
                               ANA MASKI
04454 -0 32000 0 01527
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GO ENTER THIS RELATIVE ADDRESS IN SIGMA1. 4F13994
                                                                                                SLW E+11
   04455 0 60200 0 01141
                                                                                               TSX SIG1IX.4
    04456 0 07400 4 00450
                                                                                                                                                                  POSITION SIGMA TAG.
                                                                                               ALS 15
                                                                               ORS E
LXD SSIR4,4
    04457 0 76700 0 00017
                                                                                                                                                                                                                                                                                                     4F13996
                                                                                                                                                                  ADD SIGMA TAG TO 1-TAU TAGS IN E.
    04460 -0 60200 0 01126
                                                                                                                                                                                                                                                                                                     4F13997
                                                                                                                                                                  RELOAD CALLING TAG.
   04461 -0 53400 4 04503
                                                                                                                                                                   RETURN TO CALLER +1.
    04462 0 02000 4 00001
                                                                                          TRA 1,4
                                                                                                                                                                                                                                                                                                     4F13999
                                                                                                            ROYCNV+4/ CALLS=C0190+FXCNIX+FLCNIX+DIAG+
                                                                                                                                                                                                                                                                                                     4F14002
                                                                                                            ROYCHV DOES FIXED AND FLOATING POINT CONVERSION FOR SECTION 4F14003
                                                                                                                                                                                                                                                                                                     4F14004
                                                                                                            ARITHMETIC.
                                                                                                            ROYCHY= ENTRY POINT FOR FIXED OR FLOATING POINT INTEGERS.
                                                                                                                                                                                                                                                                                                     4F14005
                                                                                            STO N
SAVE DECIMAL DIGIT IN No.
SXD EXIT+4
STZ DOE
CLA CM1
TXI IN2+0+*

STZ DOE
CLA CM2
TXI IN2+0+*

SAVE DECIMAL DIGIT IN No.
SAVE C(XR4) FOR RETURN.
CLEAR DOE (IMPLICIT EXPONENT).
PICK UP SWITCH CONTROL.
AND GO SET SWITCH.
                                                                                                                                                                                                                                                                                                     4F14006
    04463 0 60100 0 01103 ROYCNV STO N
                                                                                                                                                                                                                                                                                                  4F14007
    B4464 -0 63400 4 04467
                                                                                                                                                                                                                                                                                                 4F14008
    04465 0 60000 0 01100
                                                                                                                                                                                                                                                                                                 4F14009
                      0 50000 0 04505
04466 0 50000 0 04474 EXIT TXI IN.,0,+*
04467 1 00000 0 04474 EXIT TXI IN.,0,+*
04470 0 60000 0 01103 DECPNT STZ N
04471 -0 63000 0 04467 SXD EXIT.+4
04471 -0 63000 0 01100
04473 -0 50000 0 01100
04474 5XD EXIT.+4

SAVE CIXEN, FOR RETURN

CLEAR NO INTEGER.

4F14012
04473 -0 50000 0 04515 IN.2 STP CM2
04474 0 63000 0 04515 IN.2 STP CM2
04475 0 63000 0 04515 IN.2 STP CM2
04475 0 63000 0 04515 IN.2 STP CM2
04476 0 14000 0 04515 IN.2 STP CM2
04476 0 14000 0 04515 IN.2 STP CM2
04476 0 14000 0 04515 IN.2 STP CM2
04477 0 07400 4 01707 NC5 TSX C0190.4 *GO GET NEXT NB CHARACTER IN THE AC.4F14018
04477 0 07400 4 01707 NC5 TSX C0190.4 *GO GET NEXT NB CHARACTER IN THE AC.4F14019
04501 0 34000 0 01124 CAS LIH) COMPARE IT WITH H.
04502 1 00000 0 04504 TXI NC1.0 IFH, GO TO HEXIT.
04504 0 34000 0 04521 CM1 TXI NC2.0
04505 -0 75400 0 00000 PXD 0
04505 -0 75400 0 00000 PXD 0
04505 -0 75400 0 00000 PXD 0
04510 0 50000 0 01102 STO H
04511 0 76700 0 00002 ALS 2
04510 0 76700 0 00001 ALS 1
04511 0 76700 0 00001 ALS 1
04512 0 40000 0 04536 CM2 TXH NC3.0
04516 0 14000 0 04536 CM2 TXH NC3.0
04517 TXI NC5.0
04518 0 76700 0 00001 ALS 1
04519 0 76700 0 00001 ALS 1
04510 0 14000 0 04536 CM2 TXH NC3.0
04511 0 14000 0 04536 CM2 TXH NC3.0
04512 0 10000 0 04536 CM2 TXH NC3.0
04512 0 10000 0 04536 CM2 TXH NC3.0
04513 0 76700 0 00001 ALS 1
04514 0 40000 0 04536 CM2 TXH NC3.0
04521 0 10000 0 04547 TXI NC5.0
04521 0 10000 0 04546 TXI CM3.0
04522 1 00000 0 04566 TXI CM3.0
04524 0 10000 0 04566 TXI CM3.0
04524 0 10000 0 04566 TXI CM3.0
04525 1 00000 0 04566 CM3 TXH NC7.0
04526 1 00000 0 04566 TXI CM3.0
04527 TXI CM3.0
04528 1 00000 0 04566 CM3 TXH NC7.0
04529 1 00000 0 04566 CM3 TXH NC7.0
04520 1 00000 0 04566 CM3 TXH NC7.0
04520 1 00000 0 04566 CM3 TXH NC7.0
04521 0 00000 0 04566 CM3 TXH NC7.0
04522 1 00000 0 04566 CM3 TXH NC7.0
04526 1
                                                                                                                                                                                                                                                                                                  4F14010
                      1 00000 0 04474 EXIT
    64467
                                                                                                           DECPNT = ENTRY POINT FOR FLOATING POINT FRACTIONS.

CLEAR N (NO INTEGER).

EXIT,4

SAVE C(XR4) FOR RETURN.
                                                                                                                                                                                                                                                                                                  4F14011
```

D

D Ð

D

4F13993

	04533 0	07400 4	00417	TS	FXCNIX,4	* GO MAKE FIXCON ENTRY.	4F1404 <i>1</i> 4F14048
	04534 -0	50100 0	01517	OR.	FIXVAR	CA TAVE EVITE	4F14049
D	04535 1	00000 0	04636	TX	EXITE O	TO THERE WAS NO OVERSION.	4F14050
	04536 0	14000 0	04543	NC3 10	/ NC8	CAVE DADTIAL DESIGNA AND	4F14051
٠.	04537 0	60100 0	01103	511) N	SURTRACT 1 FROM DOF	4F14052
	04540 0	50200 0	01407	ALCO AD	> L(1)	TO AD HIST EXPONENT	4F14053
	04541 0	40000 0	01100	NC9 AD	DOE	IN FINAL RESULT.	4F14054
_	04542 0	90100 O	01100	ALCO TV	NC5.0	THEN GO PICK UP NEXT CHARACTER.	4F14055
D	04543 1	50000 0	01407	NCO IA	1 1 1 1 1	ADD 1 TO DOE .	4F14056
_	04544 0	20000 0	01407	NC4 CL	NC0*U	IF THERE WAS INTEGER OVERFLOW.	4F14057
D	04545 1	07400 4	01707	FCI TS	C0190+4	* GO GET NEXT NB CHARACTER IN THE AC.	4F14058
	04546 0 1	60200 0	01124	511	CHSAVE	SAVE IT FOR STATE B. AND	4F14059
	04547. 0	60200 0	01124	ST	FKF	CLEAR EKE (EXPLICIT EXPONENT).	4F14060
	04550 0	34000 0	01401	CA	117	COMPARE CHARACTER WITH A DASH.	4F14061
_	04551 0	00000 0	04602	TY	EN5.0	IF GREATER THAN 32, GO OUT.	4F14062
D	04552 1	00000 0	04561	ŤX	FC3.0	IF A DASH, SET EKE MINUS.	4F14063
D	04333 L	34000 0	01404	CA	127	IF LESS THAN 32, COMPARE WITH PLUSA	4F14064
	04554 0	00000	04602	TX	FN5.0	IF GREATER THAN 16, GO OUT.	4F14065
D D	04555 1	00000 0	04566	TX	EC6+0	IF PLUS. GO EXAMINE NEXT CHAR.	4F14066
U	04550 1	34000 0	01420	CA	MINUS	IF LESS THAN 16 COMPARE WITH MINUS	4F14067
	04557 0 .	00000	04602	TX	FN5.0	IF GREATER THAN 12, GO OUT.	4F14068
D	04561 0	50200 0	01101	FC3 CL	EKE	IF MINUS, SET EKE TO -0.	4F14069
	04561 0	34000 0	01373	CA	TEN	COMPARE WITH TEN.	4F14070
D	04562 1	00000	04602	TX	FN5.0	IF NON-NUMERIC, GO EXAMINE NEXT CHAP	4F14071
U	04564 -0	75400 0	00000	EC4 PX) •0	CLEAR ACC:	¥F14072
	04565 0	60100 0	01101	EC5 ST	EKE	SAVE PARTIAL RESULT(OR 0) IN EKE.	+F14073
	04566 0	07400 4	01707	EC6 TS	C0190+4	* GO GET NEXT NB CHARACTER IN THE AC.	4F14074
	04567 0	60200 0	01124	SL	CHSAVE	SAVE IT FOR STATE B.	+F14075
	04570 0	34000 0	01373	CA	TEN	AND COMPARE WITH TEN.	+F14076
D .	04570 0	00000	04602	TX	FN5+0	CHAR EXCEEDS 10, SO IS NON-NUMERIC.	+F14077
	04572 -0	75400 0	00000	PX	90	CLEAR THE AC (MACHINE ERROR).	+F14078
	04573 0	60100 0	01102	ST	Н	CHARACTER IS NUMERIC, SO HOLD IT.	+F14079
	04574 0	50000 0	01101	CL	EKE	MULTIPLY THE PREVIOUS	∔F14080
	04575 0	76700 0	00002	AL.	5 2	PARTIAL RESULT (OR ZERO)	+F14081
	04576 0	40000 0	01101	ADI	EKE	BY 10.	+F14082
	04577 0	76700 0	00001	AL	5 1	AND ADD IN	+F14083
	04600 0	36100 0	01102	AC	. н	THE CURRENT DIGIT.	+F14084
D	04601 1	00000	04565	TX	EC5+0	* GO MAKE FIXCON ENTRY. CREATE INTERNAL FXD-PT VARIABLE.AND. GO TAKE EXITR. IF THERE WAS NO OVERFLOW. SAVE PARTIAL RESULT. AND SUBTRACT 1 FROM DOE TO ADJUST EXPONENT IN FINAL RESULT. THEN GO PICK UP NEXT CHARACTER. ADD 1 TO DOE , IF THERE WAS INTEGER OVERFLOW. * GO GET NEXT NB CHARACTER IN THE AC. SAVE IT FOR STATE B. AND CLEAR EKE (EXPLICIT EXPONENT). COMPARE CHARACTER WITH A DASH. IF GREATER THAN 32, GO OUT. IF A DASH. SET EKE MINUS. IF LESS THAN 32, COMPARE WITH PLUS. IF GREATER THAN 16, GO OUT. IF PLUS. GO EXAMINE NEXT CHAR. IF LESS THAN 16, COMPARE WITH MINUS. IF GREATER THAN 12, GO OUT. IF MINUS, SET EKE TO -0. COMPARE WITH TEN. IF NON-NUMERIC, GO EXAMINE NEXT CHAR. SAVE PARTIAL RESULT(OR 0) IN EKE. * GO GET NEXT NB CHARACTER IN THE AC. SAVE IT FOR STATE B. AND COMPARE WITH TEN. CHAR EXCEEDS 10, SO IS NON-NUMERIC. CLEAR THE AC (MACHINE ERROR). CHARACTER IS NUMERIC, SO HOLD IT. MULTIPLY THE PREVIOUS PARTIAL RESULT (OR ZERO) BY 10, AND ADD IN THE CURRENT DIGIT. CONTINUE UNTIL NON-NUMERIC IS MET. COMBINE EXPLICIT EXPONENT WITH IMPLICIT EXPONENT WITH IMPLICIT EXPONENT MITH IMPLICIT EXPONENT AND SAVE IN DOE. IF N CONTAINS ZERO, TAKE FLO PT CONSTANT RETURN. PUT INTEGER INTO FLO PT WORD. ADJUST, AND IF MORE THAN 15 BITS IN LENGTH AFFIX CORRECT EXPONENT. THEN FLOATING ADD THE RESULT OF INTEGER CONVERSION, AND ROUND —-TO OBTAIN NORMALIZED RESULT. EXAMINE THE C(DOE), AND IF ZERO, TAKE FLO PT RETURN.	+F14085
•	04602 0	50000 0	01101	FN5 CL	EKE	COMBINE EXPLICIT EXPONENT	+F14086
	04603 0	40000 0	01100	ADI	DOE	WITH IMPLICIT EXPONENT.	+F14087
	04604 0	60100 0	01100	ST	DOE	AND SAVE IN DOE.	+F14088
	04605 0	50000 0	01103	FN4 CL	A N	IF N CONTAINS ZERO, TAKE	+F14089
	04606 0	10000 0	04633	TZ	MS9500	FLO PT CONSTANT RETURN.	+F14090
	04607 0	62100 0	04652	ST	\ K1	PUT INTEGER INTO FLO PT WORD;	+F14091
	04610 0	77100 0	00017	AR	5 15	ADJUST, AND	+F14092
	04611 0	10000 0	04613	TZ	FN1	IF MORE THAN 15 BITS IN LENGTH	+114093
	04612 -0	50100 0	04653	OR	\ K2	AFFIX CORRECT EXPONENT	+F14094
	04613 0	30000 0	04652	FN1 FA) K1	THEN FLOATING ADD THE RESULT	+F 14095
	04614 -0	77300 0	00010	RQ	- 8	OF INTEGER CONVERSION, AND	+F 14096
	04615 0	76000 0	00010	RN		ROUND TO OBTAIN	+F14097
	04616 -0	50100 0	04654	OR	\ K3	NORMALIZED RESULT.	+F14098
	04617 0	53400 1	01100	LX	DOE + 1	EXAMINE THE C(DOE), AND	+F14099
	04620 -3	00000 1	04633	TX	. MS9500+1+0	IF ZERO, TAKE FLO PT RETURN.	+F14100

												4514101
	04621	-3 0	0062	1	04623		TXL	FN2,1,50		IF GREATER THAN	N 50	4F14101 4F14102
D	04622	1 0	0000	0	04647		TXI	CER • 0		ERROR GO TO	DIAGNOSTIC.	
	04623	0 5	6000	0	01100	FN2	LDQ	DOE		DETERMINE WHEIP	ER INTEGER WAS	4F14103
	04624	0 1	6200	0	04641		TQP	FN3			TO THE LEFT OF DP.	
	04625	0 2	4100	1	04740		FDP	TAB • 1		IF TO THE RIGHT		4F14105
	04626						STQ	N		SUITABLE CONSTA	NT	4F14106
	04627						CLA	N		TO ADJUST RESUL	T T OF RANGE.	4F14107
	04630						ACL	K4		AND TEST FOR OU	IT OF RANGE.	4F14108
	04631	-0 7	6000	Õ	00001		PBT			IF P=1, SKIP TO	ARITH RETURN.	4F14109
D	04632	1 0	0000	Ô	04647		TXI	CER • 0		ERRORGO TO	DIAGNOSTIC.	4F14110
•	04633	0 6	0100	ŏ	01347	MS9500	STO	G		STORE IN G. AND		4F14111
	04634	0 0	7400	4	00424		TSX	FLCNIX,4	*	GO MAKE FLOCON	ENTRY.	4F14112
	04635						ORA	FN2,1,50 CER,0 DOE FN3 TAB,1 N N K4 CER,0 G FLCNIX,4 FLOVAR E+2		CREATE INTERNAL	FLO-PT VARIABLE,	
	04636	0 6	0200	ŏ	01130	EXITR	SLW	E+2		SAVE VARIABLE I	N E+2.	4F14114
	04637	-0 5	3400	4	04467		LXD	EXIT,4		RESTORE THE CIX	R4), AND	4F14115
	04640						TRA	2,4	*	RETURN TO MAIN	ROUTINE.	4F14116
	04641	0 6	0100	0	01103	FN3	STO	N		IF INTEGER WAS	SITUATED	4F14117
	04642	0 5	6000	Ō	01103		LDQ	N		TO THE LEFT OF	THE DECIMAL POINT.	
					04740		FMP	TAB • 1		MULTIPLY BY A S	UITABLE	4F14119
	04644	0 3	6100	ō	04656		ACL	K5		CONSTANT TO ADJ	UST AND TEST RANGE.	
	04645	-0 7	6000	Õ	00001		PBT			IF P=1, SKIP TO	ERROR.	4F14121
D	04646	1 0	0000	ō	04633		TXI	MS9500+0		RETURN TO ARITH	METIC ROUTINE.	4F14122
	04647	0 0	7400	4	03400	CER	TSX	DIAG +4	*	CONVERSION ERRO	R, GO TO DIAGNOSTIC	4F14123
	04650	-0 5	3400	4	04467	HEXIT	LXD	EXIT+4		RESTORE THE CIX	R4), AND	4F14124
	04651	0 0	2000	4	00001		TRA	1,4	*	RETURN TO MAIN	FLO-PT VARIABLE, N E+2, R4), AND ROUTINE. SITUATED THE DECIMAL POINT, UITABLE UST AND TEST RANGE. ERROR. METIC ROUTINE. R, GO TO DIAGNOSTIC. R4), AND ROUTINE.	4F14125
	04031	• •		•	••••							4F14126
	04652	+233	00000	00	00	K1	OCT	233000000000 252000000000 40000000 335000000000 4300000000		CONSTANT USED B	Y ROYCNV.	4F14127
	04653					K2	OCT	252000000000		CONSTANT USED B	Y ROYCNV.	4F14128
	04654					K3	OCT	40000000		CONSTANT USED B	Y ROYCNV.	4F14129
	04655					K4	OCT	335000000000		CONSTANT USED B	Y ROYCNV.	4F14130
	04656					K5	OCT	43000000000		CONSTANT USED B	Y ROYCNV.	4F14131
	04657					L(E)	BCD	100000E		CONSTANT USED B	Y ROYCNV.	4F14132
	•											4F14133
	04660	+375	53624	61	50		OCT	375536246150 372430204754 366700324573		48-TABLE USED B	Y ROYCNV.	4F14134
	04661						OCT	372430204754		47-TABLE USED B		4F14135
	04662	+366	70032	45	73		OCT	366700324573		46-TABLE USED B		4F14136
	04663	+363	54656	67	74		OCT	363546566774		45-TABLE USED B		4F14137
,	04664						OCT	360436770626		44-TABLE USED B		4F14138
	04665						OCT	354713132675		43-TABLE USED B		4F14139
	04666						OCT	351557257061		42-TABLE USED B		4F14140
	04667						OCT	354713132675 351557257061 346445677215		41-TABLE USED B		4F14141
	04670						OCT	342726145174		40-TABLE USED B		4F14142
	04671						OCT	337570120775		39-TABLE USED B		4F14143
	04672						OCT	334454732312		38-TABLE USED B		4F14144
	04673	+330	74136	70	20		OCT	330741367020		37-TABLE USED B		4F14145
	04674	+325	60113	71	63		OCT	325601137163		36-TABLE USED B		4F14146
	04675						OCT	322464114134		35-TABLE USED B		4F14147
	04676						OCT	351557257061 346445677215 342726145174 337570120775 334454732312 330741367020 325601137163 322464114134 316755023372 313612334310 310473426555 304770675742 301623713116		34-TABLE USED B		4F14148
	04677	+313	61233	43	310		OCT	313612334310		33-TABLE USED B	Y ROYCNV.	4F14149
	04700						OCT	310473426555		32-TABLE USED B		4F14150
	04701						OCT	304770675742		31-TABLE USED B		4F14151
	04702						OCT	301623713116				4F14152
	04703						OCT	276503074076		29-TABLE USED B		4F14153
	04704						OCT	273402374713		28-TABLE USED BY	Y ROYCNV.	4F14154
	J4.04			•								

```
4F14155
                              OCT 267635456171
                                                            27-TABLE USED BY ROYCNV.
04705 +267635456171
                                                            26-TABLE USED BY ROYCNV.
                                                                                                4F14156
                              OCT 264512676456
04706 +264512676456
                                                                                                4F14157
                                                            25-TABLE USED BY ROYCNV.
                              OCT 261410545213
04707 +261410545213
                                                                                                4F14158
                                                            24-TABLE USED BY ROYCNV.
                              OCT 255647410337
04710 +255647410337
                                                                                                4F14159
                                                            23-TABLE USED BY ROYCNV.
                              OCT 252522640262
04711 +252522640262
                                                                                                4F14160
                                                            22-TABLE USED BY ROYCNV.
                              OCT 247417031702
04712 +247417031702
                                                                                                4F14161
                                                            21-TABLE USED BY ROYCNV.
                              OCT 243661534466
04713 +243661534466
                                                                                                4F14162
                                                            20-TABLE USED BY ROYCNV.
                              OCT 240532743536
04714 +240532743536
                                                            19-TABLE USED BY ROYCNV.
                                                                                                4F14163
                              OCT 235425434430
04715 +235425434430
                                                                                                4F14164
                                                            18-TABLE USED BY ROYCNV.
                              OCT 231674055530
04716 +231674055530
                                                                                                4F14165
                                                            17-TABLE USED BY ROYCNV.
                              OCT 226543212741
04717 +226543212741
                                                                                                4F14166
                                                            16-TABLE USED BY ROYCNV.
                              OCT 223434157116
04720 +223434157116
                                                                                                4F14167
                                                            15-TABLE USED BY ROYCNV.
                              OCT 217706576512
04721 +217706576512
                                                                                                4F14168
                                                            14-TABLE USED BY ROYCNV.
                              OCT 214553630410
04722 +214553630410
                                                                                                4F14169
                                                            13-TABLE USED BY ROYCNV.
                              OCT 211443023471
04723 +211443023471
                                                                                                4F14170
                                                            12-TABLE USED BY ROYCNV.
                              OCT 205721522451
04724 +205721522451
                                                                                                4F14171
                                                            11-TABLE USED BY ROYCNV.
                              OCT 202564416672
04725 +202564416672
                                                            10-TABLE USED BY ROYCNV.
                                                                                                4F14172
                              OCT 177452013710
04726 +177452013710
                                                                                                4F14173
                                                            09-TABLE USED BY ROYCNV.
                              OCT 173734654500
04727 +173734654500
                                                                                                4F14174
                                                            08-TABLE USED BY ROYCNV.
                              OCT 170575360400
04730 +170575360400
                                                                                                4F14175
                                                            07-TABLE USED BY ROYCNV.
                              OCT 165461132000
04731 +165461132000
                                                                                                4F14176
                                                            06-TABLE USED BY ROYCNV.
                              OCT 161750220000
04732 +161750220000
                                                                                                4F14177
                                                            05-TABLE USED BY ROYCNV.
                              OCT 156606500000
04733 +156606500000
                                                                                                4F14178
                                                            04-TABLE USED BY ROYCNV.
                              OCT 153470400000
04734 +153470400000
                                                                                                4F14179
                                                            03-TABLE USED BY ROYCNV.
                              OCT 147764000000
04735 +147764000000
                                                                                                4F14180
                                                            02-TABLE USED BY ROYCNV.
                              OCT 144620000000
04736 +144620000000
                                                                                                4F14181
                                                            01-TABLE USED BY ROYCNV.
                              OCT 141500000000
04737 +141500000000
                                                                                                4F14182
                                                            00-TABLE USED BY ROYCNV.
                              OCT 136400000000
                       TAB
04740 +136400000000
                                                                                                4F14183
                                   END OF PROGRAM ROYCNV.
                                                                            * * * * * * * * * * * *4F14184
                                                                                                4F14185
                                                                                                4F14186
04741 0 00001 0 01230 SIG1ST PZE SIGMA1+2++1
                                                                                                4F141865
                 04742 ENDBDR BSS 0
                                                                                                4F14187
                                                                                                4F14188
                              ORG 2701
                 05215 ENDB
                                                                                                4F14189
                 05215 ARGREG BSS 50
                                                                                                4F14190
                 05277 CBAR
                              BSS 1
                                                                                                4F14191
                              BSS 1
                 05300 ABAR
                                                                                                4F14192
                 05301 FSTYPE BSS 1
                                                                                                4F14193
                 05302 FSBITS BSS 1
                                                                                                4F14194
                 05303 FNBITS BSS 1
                                                                                                4F14195
                 05304 FNCTR BSS 1
                                                                                                4F14196
                 05305 ALPHA BSS 139
                                                                                                4F14197
                 05520 LAMBDA BSS 1200
                                   END OF ARITHMETIC / STATE B.
                                       4F14200
                                                                                                4F14201
                                  ARITHMETIC / STATE C=
                                  704 FORTRAN MASTER RECORD CARD / STATE C = F0170000.
                                                                                                4F14202
                                                                                                4F142021
                              ORG 0
                 00000
                                                                                                4F142022
                              PZE ORGC . DMWR03
00000 0 00504 0 03440
                                                                                                4F142023
00001 0 00000 0 05043
                              PZE ENDC-1
                                                                                                4F14203
                                  STATE C. PERFORMS OPTIMIZATION ON LAMBDA TABLE.
                                                                                                4F14204
```

										4F14205
				03440	ORGC	ORG	1824			4F14206
03440	0	56000	0	G1406	R00000	LDQ	L(0)	CLEAR MQ		4F14207
	-0	53400	ī	01360		LXD	NBAR .A	LDXA WITH -N		4F14208
03442	-6	63400	•	03451		SXD	R00700+A			4F14209
02442	-0	63400	i	03527		SXD	R05200+A			4F14210
	-0	63400	i	0/101		SXD	AS0800 • A			4F14211
	-0	63400	i	04101		SXD	A52900 • A	CLEAR MQ LDXA WITH -N CLEAR XA,XB,XC, ADD INTO GAMMA COUNTERS (-3)*2**18+(-3) -3L IN XA AT END EXIT FROM SINGLE ELEMENT REDUCTION		4F14212
03446	-0	53400	÷	01406		IXA	1 (0) • 7	CLEAR XA+XB+XC+		4F14213
03440	-0	40000	2	05044	R00500	STO	BETA • B			4F14214
03450	-0	77777	2	02451	KOOJOO	TXI	R00700+B+=1			4F14215
03450	•	00000	2	03447	P00700	TYH	R00500 +B+0			4F14216
	2	50000	~	01117	100100	CLA	31 BAR			4F14217
	Ž	62200	Š	01111	-	STD	R01700	•		4F14218
	ŏ	62200	~	02541		STD	R06200	A second		4F14219
	Š	50000	ï	05520	P01000	CLA	I AMBDA • A	ADD INTO GAMMA COUNTERS		4F14220
03455	0	73400	· 2	00000	K01000	PAX	0 • B	,	-	4F14221
03456	0	50000	2	06000		CLA	RETA . R			4F14222
03457	ŏ	40000	~	015044		ADD	BETAD1	(-3)*2**18+(-3)	-	4F14223
03460	Ŏ	40000	٧	01200		SID	RETA - B		- (4F14224
03461	Ŏ	62100	2	05044		STA	RETA B		- (4F14225
03462	٠	02100	2	03044		TYT	P01700 • A • ~ 3		- 1	4F14226
03463	ī	11112	1	02466	P01700	TYH	R01000+A+0	-3L IN XA AT END	- (4F14227
03464	3	77772	1	02516	R01100	TVL	R04200 + A + - 6	EXIT FROM SINGLE ELEMENT REDUCTION		4F14228
	3	11112	ļ.	05516	K01800		LAMBDA-3.A		4	4F14229
03466	Ö	50000	1	02212			0.B	,	- 4	4F14230
03467	Ü	73400	2	00000			BETA B		- (4F14231
		50000					BETAD1		4	4F14232
03471	Q	40200	Ō	01206			R02600			4F14233
		10000					R01800 + A + 3			4F14234
03473	1	00003	1	03465	003400		LAMBDA-2-A	SINGLE FLEMENT		4F14235
03474	. 9	56000	Ť	05516	KU2600	LGL	LAMBDA-2+A	FYAMINE OPERATION		4F14236
		76300					112	Experience of Energy Con-	4	4F14237
03476		40200					R03200	•	4	4F14238
03477	-0	10000	ō	03501			R01800+A+3		- 6	4F14239
03500	1	00003	1	03467	B03300		MASK1	SINGLE ELEMENT. NON-UNARY OP	- 6	4F14240
03501	-0	50000	ņ	01221	R03200	ANS	LAMBDA-3+A	EXTRACT TAGS AND STORE BACK	4	4F14241
03502	O.	32000	1	05513			LAMBDA-6+A		4	4F14242
03503	Ü	50000	+	05512			LAMBDA-3+A		- 6	4F14243
		50100					LAMBDA-6.A	•	4	4F14244
03505		60200					LAMBDA-2+A	SINGLE ELEMENT EXAMINE OPERATION SINGLE ELEMENT, NON-UNARY OP EXTRACT TAGS AND STORE BACK EXTRACT FS BITS AND STORE BACK	4	4F14245
03506	-0	50000	Ţ	05516			MASK5	EATHER TO SELECT THE S	4	4F14246
03507	-0	32000	ŭ	01470			LAMBDA-5+A		4	4F14247
03510	-0	60200	Ť	02213			LAMBDA-1.A	STORE BACK SYMBOL	- 4	4F14248
03511	-0	50000	1	05517			LAMBDA-4+A		-	4F14249
03512	9	60200	Ŧ	05514			BETA B	REDUCE GAMMA COUNT TO 0	4	4F14250
03513	0	60000	4	05044			LAMBDA-3+A	CLEAR TAG WORD	:4	4F14251
03514	0	60000	Ţ	02212			R01800+A+3	RESUME SCAN-BACK	4	4F14252
03515	1	00003	Ţ	03465	004200		C C C C C C C C C C C C C C C C C C C	THE STATE OF THE S	4	4F14253
03516	0	60000	ō	01/0/	R04200	217	L(0),7	EXTRACT FS BITS AND STORE BACK STORE BACK SYMBOL REDUCE GAMMA COUNT TO 0 CLEAR TAG WORD RESUME SCAN-BACK CLEAR XA+XB+XC SET ORIGINS OF SCRIPL TABLE	4	4F14254
	0	53400	1	01406	004500		DETA-R	SET ORIGINS OF SCRIPL TABLE	-	4F14255
03520					R04500	TZE	DOE100		4	F14256
03521		10000					R05100		4	F14257
03522		56000				LDQ	DETA . D		4	F14258
03523	-0	62000	2	05044		SLU	BETA B			

03524 0	40000	01347		ADD			4F14259 4F14260
03525 0	62200	01347		STD			4F14261
03526 1	77777	2 03527	R05100	TXI	R05200 +B +-1	DECLES-DECLACES 2D AT END	4F14262
03527 3	00000	2 03520	R05200	TXH	R04500 .B .O	DEC(K)=DEC(ACC)=-3P AT END STRING BEADS COMPRESS LAMBDA TABLE	4F14263
			R05300	CAL	LAMBDA .A	SIKING BEADSOOF COMPRESS EAMOUR TABLE	4F14264
03531 0	10000	03540			R06100		4F14265
03532 0	60200	4 05520			LAMBDA • C		4F14266
03533 0	50000	05521			LAMBDA+1+A		4F14267
03534 0	60100	4 05521		-	LAMBDA+1+C		4F14268
	50000				LAMBDA+2+A		4F14269
03536 0	60100	4 05522			LAMBDA+2+C		4F14270
03537 1	77775	4 03540			R06100 • C • ~ 3		4F14271
03540 1	77775	03541	R06100	IXT	R06200 + A + - 3		4F14271
03541 3	00000	03530	R06200		R05300+A+0		4F14273
03542 -0	63400	4 03563			R07800+C	-3P IN XC AT END	4F14274
03543 -0	63400	4 03707			CS0760 • C		4F14275
03544 0	53400	1 01406			L(0)+A		
03545 0	50000	05520	R06400	CLA	LAMBDA .A	STORE ORDERED, REDUCED LAMBDA TABLE	4F14276
	73400				0 • B	IN SCRIPL TABLE	4F14277
03547 0	50000	2 05044		CLA	BETA B		4F14278
03550 -0	73400	4 00000		PDX	0 • C		4F14279
	50000			CLA	LAMBDA .A	·	4F14280
	60100			STO	SCRIPL•C		4F14281
	50000			CLA	LAMBDA+1+A		4F14282
	60100			STO	SCRIPL+1+C		4F14283
	50000			CLA	LAMBDA+2+A	,	4F14284
	60100			STO	SCRIPL+2.C		4F14285
03557 1	77775	4 03560			R07500,C,-3		4F14286
03560 -0	75400	4 00000	R07500	PXD	0 • C		4F14287
	62200			STD	BETA .B		4F14288
03562 1	77775	03563			R07800+A+-3		4F14289
03563 3	00000	1 03545	R07800	TXH	R06400 • A • O	-3P IN XA AT END	4F14290
03564 0	56000	01406	CS0000	LDQ	L(0)	ELIMINATE COMMON SEGMENTS	4F14291
03565 -0	50000	1 06645	CS0010	CAL	SCRIPL-3.A		4F14292
03566 0	10000	0 03575		TZE	CS0080	ERASED SEGMENT - CONTINUE BACK-SCAN	4F14293
03567 0	73400	2 00000	CS0030	PAX	0 • B		4F14294
03570 -3					CS0660+B+0	EXIT FROM CS ROUTINE	4F14295
03571 0	62100	0 03567		STA	C50030	·	4F14296
03572 0	50000	2 05044			BETA .B		4F14297
03573 0	73400	4 00000	CS0060	PAX	0 • C		4F14298
03574 -3	77772	4 03576		TXL	CS0090+C+-6	AT LEAST TWO ELEMENTS	4F14299
03575 1	00003	1 03565	CS0080	TXI	CS0010 • A • 3	ONE ELEMENT OR ERASED SEGMENT	4F14300
03576 -0	63400	03651	CS0090	SXD	C50470 • A	SAVE XA	4F14301
03577 -0	63400	4 01357		SXD	LENGTH + C	SAVE XC. CONTAINING LENGTH OF SEGMENT	4F14302
03600 -3	00000	4 03603	CS0100	TXL	CS0130,C.0	SEARCH UP FOR MATCHING SEGMENT	4F14303
	00003			TXI	CS0120+A+3	·	4F14304
03602 1	00003	4 03600	CS0120	TXI	CS0100,C,3		4F14305
03603 -0	50000	1 06645	CS0130	CAL	SCRIPL-3.A		4F14306
03604 -0	10000	0 03606		TNZ	CS0151		4F14307
	00003				CS0130,A,3	ERASED SEGMENT	4F14308
03606 0	73400	2 00000	CS0151				4F14309
03607 -3				TXL	CS0610+B+0	ERASED SEGMENT GO ON TO NEXT SEGMENT	4F14310
	62100				CS0060		4F14311
	50000				BETA+B		4F14312
93021 V	2000						

	03612 0	73400	4	00000		PAX	0 • C			4F14313.
	03613 -0	75400	4	00000			0 • C			4F14314
	03614 0					-	LENGTH			4F14315
٠	03615 -0	10000	0	03600			CS0100	NOT SAME LENGTH SEGMENT-CONTINUE	SEARCH	4F14316
	03616 -0	53400	2	03651		LXD	CS0470+B	SAME LENGTH SEGMENT		4F14317
	03617 -0	63400	1	03667			CS0600 • A			4F14318
	03620 -3	00000	4	03645	CS0250	TXL	CS0430,C,0	MATCHING SEGMENTS		4F14319
	03621 0	50000	2	06647			SCRIPL-1.B			4F14320
	03622 0	40200	1	06647			SCRIPL-1.A			4F14321
	03623 -0	10000	0	03600			CS0100			4F14322
	03624 -0						SCRIPL-3.B	SYMBOLS MATCH		4F14323
	03625 -0						MASK1			4F14324
	03626 0	60200	0	01347		SLW	_			4F14325
	03627 -0	50000	1	06645			SCRIPL-3.A			4F14326
	03630 -0	32000	0	01527			MASK1			4F14327
	03631 0	76000	0	00006		COM				4F14328
	03632 0	36100	0	01347		ACL	G į			4F14329
	03633 0					COM				4F14330
	03634 -0						CS0100	a		4F14331
	03635 0						SCRIPL-2,B	TAGS MATCH		4F14332
	03636 0	77100	0	00006		ARS	-			4F14333
	03637 0	76700	0	00006		ALS		•		4F14334
	03640 0						SCRIPL-2.A			4F14335
	03641 -0	10000	0	03600			CS0100			4F14336
	03642 1	00003	1	03643			CS0360+A+3	OPS MATCH		4F14337
	03643 1	00003	2	03644	CS0360	TXI	CS0370+B+3			4F14338
	03644 1	00003	4	03620	CS0370	TXI	CS0250+C+3			4F14339
	03645 -0	50000	1	06650	CS0430	CAL	SCRIPL .A	MATCHING SEGMENTS SEARCH FOR REFERENCES		4F14340
	03646 -0	32000	0	01452			MASK2	SEARCH FOR REFERENCES		4F14341
					CS0450	CAS	SCRIPL-1.A			4F14342 4F14343
	03650 1	00003	1	03647			CS0450+A+3			4F14344
					C50470	IXI	CS0490 • 0 • 0			4F14345
	03652 1	00003	1	03647			CS0450+A+3	CHANCE DEEEDENCE		4F14346
	03653 0	50000	0	03567	C\$0490	CLA	CS0030	CHANGE REFERENCE		4F14347
	03654 0	62100	1	06647			SCRIPL-1+A			4F14348
	03655 -0						LENGTH+C			4F14349
	03656 -0	53400	1	03667	ccorno		CS0600 • A	ERASE DUPLICATE SEGMENT		4F14350
					CSUSSU	IXL	CS0570 • C • 0	ERASE DOFLICATE SEGRENT		4F14351
	03660 -0						SCRIPL-3+A			4F14352
	03661 1	00003	Ţ	03662	CCDECO		CS0560+A+3			4F14353
	03662 1	00003	4	03651	CS0560	1 × 1	CS0530+C+3	•		4F14354
					CS0570		CS0060+C BETA+C	,		4F14355
	03664 -0						112	STORE CS BIT		4F14356
	03665 -0						SCRIPL+1.B	STORE CS DIT		4F14357
	03666 -0	60200	2	06651	CC0400				•	4F14358
	03667 1	00000	v	03003	CS0610	1 1 7	CS0130+0+0			4F14359
					C20010		CS0470•A LENGTH•C			4F14360
	03671 -0	23400	. 4	0133/	CC0420		CS0010 + C + O			4F14361
					(30030	TYI	CS0650+A+3			4F14362
	03673 1	00003	Ţ.	03014	C50450		CS0630•C•3			4F14363
	03674 1	00003	4	03012	CS0660	1 4 4	1 (0) 45	STRING BEADS COMPRESS SCRIPL	TABLE	4F14364
	03675 0	53400	2	01400	CS0470	CVI	SCRIPL A	CINING DEPOTATE COM DEGLE OCKINE		4F14365
	03676 -0	20000	Ţ	00000	C30010	TZF	CS0750			4F14366
	03677 0	10000	0	05100		126	C00130			

							•
03700 0	60200	4 0665)	SLW	SCRIPL,C		4F14367
03701 0	50000	1 0665	i·	CLA	SCRIPL+1,A	-3Q IN XC AT END TURN OFF ALL SENSE LITES PERMUTE * AND / LDXC WITH SEGMENT LENGTH	4F14368
03702 0	60100	4 0665	i.	STO	SCRIPL+1,C		4F14369
03703 0	50000	1 0665	2		SCRIPL+2+A		4F14370
03704 0	60100	4 0665	2	STO	SCRIPL+2+C		4F14371
03705 1	77775	4 0370	5		CS0750+C+-3		4F14372
03706 1	77775	1 0370	7 CS0750	TXI	CS0760+A+-3		4F14373
03707 3	00000	1 0367	5 CS0760	TXH	CS0670+A+0		4F14374
03710 -0	63400	4 0372	4	SXD	PM0080 • C	-3Q IN XC AT END	4F14375
03711 -0	63400	4 0411	3	SXD	A\$1800,C		4F14376
03712 -0				SXD	AS3600+C		4F14377
03713 0	76000	0 0014	PM0000	SLF		TURN OFF ALL SENSE LITES	4F14378
03714 0	53400	1 0140	5	LXA	L(0)+A	PERMUTE * AND /	4F14379
03715 0	50000	1 0665	PM0010	CLA	SCRIPL .A		4F14380
	73400			PAX	0 • B		4F14381
	50000	2 0504	4	CLA	BETA .B		4F14382
03720 0	73400	4 0000)	PAX	0 • C	LDXC WITH SEGMENT LENGTH	4F14383
03721 -0				SXD	PM0070.C	•	4F14384
03722 -3	77767	4 0372	5	TXL	PM0100+C+-9		4117907
03723 1	00000	1 0372	4 PM0070	TXI	PM0080+A+0	LENGTH LESS THAN 3 OR OD NOT = TO *	4F14386
03724 -3	00000	1 0407	PM0080	TXL	AS0000 .A .O	EXIT FROM PERMUTATION ROUTINE	4F14387
03725 0	02000	0 0371	5	TRA	PM0010		4F14388
03726 0	56000	1 0665	PM0100	LDQ	SCRIPL+1+A	SEGMENT LENGTH AT LEAST = TO 3	4F14389
03727 -0	75400	0 0000)	PXD	0,0		4F14390
03730 -0	76300	0 0000	5	LGL	6		4F14391
03731 0				SUB	STAR		4F14392
03732 -0				TNZ	PM0070		4F14393
03733 0	16200	0 0373	5	TQP	PM0170		4F14394
03734 0	02000	0 0372	3		PM0070		4F14395
03735 -0	63400	4 0374	4 PM0170	5XD	PM0260 • C		4F14396
03736 -0	63400	4 0376	2	SXD	PM0400 C		4F14397
03737 -0					PM0680.C		4F14398
03740 0	53400	4 0140	5	LXA	L(0)+C	LDXC WITH 0	4F14399
93741 1				TXI	PM0240.A3		4F14400
03742 0	76000	0 0014	3 PM0240	SLN	3	TURN # LITE ON	4F14401
03743 1	77775	4 0374	4 PM0250	TXI	PM0260.C3		4F14402
03744 -3	00000	4 0402	5 PM0260	TXL	PM0790+C+0	EXIT	4F14403
03745 -0	63400	4 0375	5	SXD	PM0340+C		4F14404
03746 -0	53400	2 0374	7		PM0290+B		4F14405
03747 1	00000	3 0375) PM0290	TXI	PM0300+3+0	XA TO XA AND XB	4F14406
03750 -0	75400	0 0000	PM0300	PXD	0 • 0		4F14407
03751 0	56000	1 0665	l	LDQ	SCRIPL+1,A		4F14408
03752 -0	76300	0 0000	5	LGL	6	·	4F14409
03753 0	34000	0 0140	2		SLASH		4F14410
03754 0	00007	0.0000	FEXUB	HTR	0,0,7		4F14411
03755 -3	00000	0 0400	7 PM0340	TXL	PM0640 • 0 • 0	/ SIGN	4F14412
03756 -0	76000	0 0014	3	SLT	3 .	* SIGN IS * LITE ON	4F14413
03757 1	77775	1 0374	2		PM0240+A+-3	NO	4F14414
03760 1	77775	2 0376	1 .		PM0390 .B3	YES - SEARCH FOR / SIGN	4F14415
03761 1	77775	4 0376	2 PM0390	TXI	PM0400+C+-3	/ SIGN # SIGN IS * LITE ON NO YES - SEARCH FOR / SIGN	4F14416
03762 -3	00000	4 0402	3 PM0400	TXL	PM0770,C,0	EXIT	
03763 -0	75400	0 0000) ·	PXD	0.0		4F14418
03764 0	56000	2 0665	l		SCRIPL+1.B		4F14419
03765 -0	76300	0 0000	5	LGL	6		4F14420

	03766		40200					SLASH PM0480		4F14421 4F14422
	03767	-	10000					PM0390+B+-3	·	4F14423
	03770		77775			DM0490		SCRIPL A	PERMUTE TAG WORDS	4F14424
	03771					PM0460		SCRIPL B	FERRIOTE TRO WORDS	4F14425
			56000					SCRIPL D		4F14426
			60000					SCRIPL DB		4F14427
			60100					SCRIPL+1+A	PERMUTE OP WORDS	4F14428
	03775	-	50000	-				SCRIPL+1,B	- Entrope of Montes	4F14429
	•		60000	_	-			SCRIPL+1.A	·	4F14430
	04000		60100					SCRIPL+1,B		4F14431
	04000		50000	_				SCRIPL+2.A	PERMUTE SYMBOL WORDS	4F14432
					06652			SCRIPL+2.B		4F14433
	04002	-0	60000	1	06652			SCRIPL+2.A		4F14434
			60100					SCRIPL+2.B		4F14435
			53400					PM0340 + C		4F14436
			77775					PM0250+A+-3	RESUME SEGMENT SCAN	4F14437
	04007	-0	76000	ō	00143	PM0640			/ SIGN IS * LITE ON	4F14438
	04010	1	77775	2	04012	PM0650	TXI	PM0670.83	NO	4F14439
	04011		77775			٠.		PM0250+A+-3		4F14440
	04012	1	77775	4	04013	PM0670	TXI	PM0680,C,-3		4F14441
	04013	-3	00000	4	04023	PM0680	TXL	PM0770+C+0		4F34442
			75400					0.0		4F14443
			56000				LDQ	SCRIPL+1.B		4F34444
	04016	-0	76300	0	00006		LGL	6		4F14445
	04017	0	40200	0	01402			SLASH		4F14446
	04020	0	10000	0	04010			PM0650		4F14447
			76000				SLN	_	TORN * LITE ON	4F14448
	04022	. 0	02000	0	03771			PM0480		4F14449
	04023	-0	53400	1	04024	PM0770	LXD	PM0780.A	WD 74 VA WD	4F14450 4F14451
	04024	1	00000	.3	04025	PM0780	IXI	PM0790+3+0	XB TO XA+XB	4F14452
						PM0790	שאל	CCDIBL -2 - A		4F14453
			56000				LGL	SCRIPL-2.A		4F14454
			76300					SLASH	•	4F14455
	•		40200					PM0080	/ - EXIT FROM SEGMENT SCAN	4F14456
	04031		10000 75400					0.0	the first of the f	4F14457
	04032		56000					SCRIPL-5+A	•	4F14458
		_	76300	-			LGL			4F14459
	04035		40200					SLASH		4F14460
٠.	04036		10000					PM0080	· · · / * - EXIT FROM SEGMENT SCAN	4F14461
	04037	-	50000					SCRIPL-3.A	***	4F14462
	04040	-	60100	_			STO			4F14463
	04041		50000				CLA	SCRIPL-2+A		4F14464
	04042		60100				STO	E+1		4F 14465
	04043	-	50000				CLA	SCRIPL-1.A	• `	4F14466
		_	60100	_			STO	E+2		4F14467
	04045		00003				TXI	PM0980+A+3		4F14468
,	04046	1	00003	4	04047	PM0980	TXI	PM0990,C,3		4F14469
	04047	-3	00000	4	04057	PM0990	TXL	PM1070,C,0	FINIS	4F14470
	04050	0	50000	1	06645		CLA	SCRIPL-3+A		4F14471
	04051	0	60100	1	06650			SCRIPL .A		4F14472
	04052	_	50000					SCRIPL-2+A	·	4F14473
	0 4053	0	60100	1	06651		510	SCRIPL+1+A		4F14474

04054	٥	50000	06647		CLA	SCRIPL-1:A			4F14475
04055	ŏ	60100	06652			SCRIPL+2+A		*	4F14476
04056		00003			TXI	PM0980.A.3			4F14477
04057	0	50000	01126	PM1070	CLA	Ε			4F14478
04060		60100			STO	SCRIPL +A			4F14479
04061	-	50000			CLA	E+1			4F14480
04062		60100			STO	SCRIPL+1+A		•	4F14481
04063		50000			_	E+2			4F14482
04064	_	60100				SCRIPL+2.A			4F14483
	_	50000				SCRIPL+4.A	PRESERVE CS BIT		4F14484
04065	-0	32000	01401			11Z		4	4F14485
04060	-0	60200	06651			SCRIPL+1.A			4F14486
04070		02000				PM0070			4F14487
				AS0000			RENUMBER SEGMENT OF SCRIPL	-	4F14488
04071	~	50000	2 05044	AS0100	CLA	BETA AR			4F14489
04072		10000		A30100		AS0700	•		4F14490
04073						0+0			4F14491
		75400			ARS				F14492
04075		77100				BETA • B		4	F14493
04076		62100				AS0700+C+-1	· · · · · · · · · · · · · · · · · · ·		F14494
04077	Ī	77777	4 04100	450700					4F14495
04100	Ţ	7777	2 04101	AS0700	TVI	AS0100+B+0			F14496
04101	3	00000	2 04012	A50800		ASO100,B,0 SCRIPL,A	•		F14497
04102				A30900		0+B		4	F14498
04103	-	73400				BETA+B			F14499
04104	_	50000				SCRIPL +A			F14500
04105	_	62100				SCRIPL+2+A	· ·	4	F14501
04106	-	56000			LGL	1		-	F14502
		76300			LBT	•		4	F14503
04110		76000				AS2000			F14504
04111		16200				AS1800+A+-3	•	4	F14505
04112	1	77775	1 04113	463000		AS0900+A+0		4	F14506
04113				A31800		AS2500			F14507
04114		02000		452000		35			F14508
				AS2000	LOL	0 • B		4	F14509
04116		73400				BETA B		4	F14510
04117	-	50000				CCOIDL +2.A		4	F14511
04120	_	62100	_		-	SCRIPL+2,A AS1800,A,-3			F14512
04121		77775		162500		MOIOCOTAL P	LDXA.X8 WITH 0		F14513
04122				AS2500		L(0)	CI FAR MO		F14514
04123	0	56000	01406	152700			RECLEAR BETA TABLE	4	F14515
04124				AS2700	TUT	AS2900+B+-1	HE CECHI DE IN INDE	4	F14516
04125	1	77777	2 04126				•		F14517
04126	3	00000	2 04124	AS2900	IXH	AS2700 #B # 0	ADD THTO GAMMA COUNTERS		F14518
04127				A53000		SCRIPL A	ADD THIS SAMMA COUNTERS		F14519
04130	_	73400				0 • B			F14520
04131	-	50000				BETA B	2*2**18+/21		F14521
04132		40000				BETAD2	LDXA.XB WITH 0 CLEAR MQ RECLEAR BETA TABLE ADD INTO GAMMA COUNTERS 3*2**18+(-3)		F14522
04133		62200				BETA B			F14523
04134		62100				BETA B			F14524
04135	1	77775	1 04136			AS3600+A+-3			F14525
04136				A53600	IXH	A\$3000 \$A \$0	-30 IN AN AT END		F14526
04137	-0	63400	1 01117			3QBAR+A	-3Q TO 3QBAR = 3LBAR ELIMINATE COMMON SUBEXPRESSIONS		F14527
•				CC2000	CAL	SCRIPL-3,A	LOAD XB WITH S(I)		F14528
04141	0	73400	2.00000		PAX	Q • B	FOUR VR MILLI 2011		

									4514500
04142	-3	00000	2	04167		TXL	CC\$240,8,0	EXIT AT S(0)	4F14529
04143	-0	50000	2	05044		CAL	BETAIR	OBJAIN LENGTH OF STAT	4514530
04144	0	62200	0	04145		SID	CC\$060	AND BACK OF TO	4514533
04145	1	00000	1	04146	CC\$060	IXI	CCS0709A90	BEGINNING OF CORRENT SEGMENT	4F14F22
04146	-0	50000	1	06651	CCS070	CAL	SCRIPL+1+A	OBTAIN OFT (SCIT)	4514522
04147	-0	32000	0	01401		ANA	112	EXTRACT CS-BIT	4F14F2F
04150	0	10000	0	04140		TZE	CCS000	CONTINUE TO SCI-II	4F14F25
04151	-0	75400	2	00000		PXD	0+B		4514530
04152	0	77100	0	00022		ARS	18		4514221
04153	0	53400	4	01406		LXA	L(0),C	10 \$(1)	4514538
04154	-0	53400	2	04155		LXD	CCS140+B	AND KEEP COUNT OF SAME	4F14539
04155	1	00000	3	04156	CCS140	TXI	CCS150,3,0	XA TO XA+XB	47 14540
04156	-3	00000	2	04163	CCS150	TXL	CC\$200,B,0	SEARCH-UP FINISHED. EXAMINE COUNT	4614541
04157	0	34000	2	06647		CAS	SCRIPL-1,B		4714542
04160	1	00003	2	04156		TXI	CCS150,B,3	CONTINUE SEARCH	4514543
04161	1	00001	4	04162		TXI	CCS190,C,1	RAISE REF COUNTER AND	4714544
04162	1	00003	2	04156	CCS190	IXI	CCS150,B,3	CONTINUE SEARCH	45 14545
04163	3	00001	4	04140	CCS200	TXH	CCS000,C,1	MULTIPLE REFERENCE	4714546
04164	-0	50000	0	01530		CAL	MASK4	SINGLE REFERENCE - SO SET	4514547
04165	0	32000	1	06651		ANS	SCRIPL+1+A	OP1(S(1))30 TO 0, AND	4F14548
04166	0	02000	0	04140		TRA	CCS000	CONTINUE FOR S(I-1)	4F14549
04167	-0	53400	1	04136	CCS240	LXD	AS3600•A	-3Q TO XA	4F14550
04170	-3	00000	1	04423	PL0000	TXL	LK0000+A+0	GO TO LINKAGE	4F14551
04171	0	50000	1	06645		CLA	SCRIPL-3.A		4F14552
04172	Ö	73400	2	00000		PAX	Q • B		4F14553
04173	-0	50000	2	05044		CAL	BETA .B		4F14554
04174	ŏ	73400	4	00000		PAX	0 • C	•	4F14555
04175	ŏ	62200	0	04176		STD	PL0060	• •	4F14556
04176	ī	00000	ì	04177	PL0060	TXI	PL0070+A+0	SET XA TO BEGINNING OF S(I)	4F14557
04177	-0	75400	Ō	00000	PL0070	PXD	0.0		4F14558
04200	õ	56000	ĭ	06651		LDQ	SCRIPL+1+A	OBTAIN	4F14559
04201	-ō	76300	ō	00006		LGL	6	AND	4F14560
04202	Ö	34000	Õ	01427		CAS	SPECOP	EXAMINE OP1 (S(I))	4F14561
04203	ō	02000	Õ	04300		TRA	PL0680		4F14562
04204	ō	02000	ŏ	04242		TRA	PL0460		4F14563
04205	-0	75400	Ō	00000	PL0130	PXD	0.0	OP1 (S(I)) IS ++ - OR *	4F14564
04206	õ	56000	ĭ	06652		LDQ	SCRIPL+2+A	OBTAIN	4F14565
04207	-0	76300	ō	00001		LGL	1	AND	4F14566
04210	õ	76000	ŏ	00001		LBT		EXAMINE SYM1 (S(I))	4F14567
04211	õ	16200	ō	04223		TQP	PL0300	·	4F14568
04212	-0	76300	õ	00005		LGL	5	EX (IN)TERNAL VARIAVLE	4F14569
04213	Õ	34000	ŏ	01423	PL0135	CAS	L(H)	IS SYM1 (S(I)) FIX OR FLO PT	4F14570
04214	ñ	34000	ñ	01425		CAS	L(0)	•	4F14571
04214	ŏ	02000	õ	04220		TRA	PL0240	FLO PT SET OP1 (S(I)) 32 = 1	4F14572
04216	ິດ	02000	ñ	04220		TRA	PL0240	FLO PT DITTO	4F14573
04217	ñ	02000	Ô	04170		TRA	PL0000	FIX PT OP1 (S(I)) 32 = 0	4F14574
04220	-0	50000	õ	01416	PL0240	CAL	L(8)	SET OP1 $(S(I))$ 32 = 1	4F14575
04221	_0	60200	1	06651	PL0250	ORS	SCRIPL+1.A		4F14576
04221	1	00000	â	04170	PL0260	TXI	PL0000,0,0	CONTINUE SCAN	4F14577
04222	-0	53400	2	04224	PL0300	LXD	PL0310.B	EXIT AT S(0) OBTAIN LENGTH OF S(1) AND BACK UP TO BEGINNING OF CURRENT SEGMENT OBTAIN OP1 (S(1)) EXTRACT CS-BIT CONTINUE TO S(1-1) TO S(1) AND KEEP COUNT OF SAME XA TO XA,XB SEARCH-UP FINISHED. EXAMINE COUNT CONTINUE SEARCH RAISE REF COUNTER AND CONTINUE SEARCH MULTIPLE REFERENCE SINGLE REFERENCE - SO SET OP1(S(1))30 TO 0, AND CONTINUE FOR S(1-1) -3Q TO XA GO TO LINKAGE SET XA TO BEGINNING OF S(1) OBTAIN AND EXAMINE OP1 (S(1)) EX (IN)TERNAL VARIAVLE IS SYM1 (S(1)) FIX OR FLO PT FLO PT SET OP1 (S(1)) 32 = 1 FLO PT DITTO FIX PT OP1 (S(1)) 32 = 0 SET OP1 (S(1)) 32 = 1 CONTINUE SCAN SYM1 (S(1)) = SOME S(J) XA TO XA,XB	4F14578
04224	-0	00000	2	04225	PL 0310	TXI	PL0320+3+0	XA TO XA, XB	4F14579
04224	Ω	63600	4	04225	PL 0320	SXD	PL0330 • C		4F14580
04222	-0	00000	2	04227	PI 0330	TXI	PL 0340 +B + 0	· ·	4F14581
04220	-0	50000	2	04650	DI 0340	CAL	SCRIPL AB		4F14582
04227	-0	20000	4	00000	PE0340	LAL	J C. (1. L.) D		

04230 0 73400 4 00000 PAX 0.C		4F14583 4F14584
84331 -A 33000 A 01453 ANA MASKZ		4F14585
04231 -0 32000 0 01432 04232 0 40200 1 06652 SUB SCRIPL+2+A 04233 0 10000 0 04237 TZE PL0420 04234 0 50000 4 05044 CLA BETA+C 04235 0 73400 4 00000 PAX 0+C		4F14586
04233 0 10000 0 04237 TZE PL0420		4F14587
04234 0 50000 4 05044 CLA BETA C		4F145 88
04235 0 73400 4 00000 PAX 0.C 04236 0 02000 0 04225 TRA PL0320		4F14589
04236 0 02000 0 04225 TRA PLOSEO	SYM1(S(I)) = S(J)	4F14590
04240 =0 22000 0 03414 ANA 1 (8)	FXTRACT OP1 (S(J)) 32 AND GO	4F14591
04241 -0 32000 0 01415 ARA E107	SET OP1 (S(I)) 32 = OP1 (S(J)) 32	4F14592
04241 0 02000 0 04221 TRA 120220	OP1 (S(I)) IS SPOP	4F14593
04235 0 73400 4 00000 PAX 0.C 04236 0 02000 0 04225 TRA PL0320 04237 -0 50000 2 06651 PL0420 CAL SCRIPL+1.B 04240 -0 32000 0 01416 ANA L(8) 04241 0 02000 0 04221 TRA PL0250 04242 -0 76300 0 00007 PL0460 LGL 7 04243 0 16200 0 04252 TQP PL0465 04244 0 56000 1 06652 PL0461 LDQ SCRIPL+2.A 04245 -0 75400 0 00000 PXD 0.0 04246 -0 76300 0 00006 LGL 6		4F14594
04244 0 56000 1 06652 PL0461 LDQ SCRIPL+2+A	FS NAME -	4F14595
04245 -0 75400 0 00000 PXD 0.0	EXAMINE SUM1 (S(I)) S+1-5	4F14596
04246 -0 76300 0 00006 LGL 6		4F14597
04247 0 40200 0 01433 SUB L(X)		4F14598
04250 -0 10000 0 04220 TNZ PL0240	FLO PT GO SET OP1 (S(I)) 32 = 1	4F14599
04251 0 02000 0 04170 TRA PL0000	FIX PT $\bullet \bullet \bullet$ OP1 (S(I)) 32 = 0	4F14600
04245 -0 75400 0 00000 PXD 0+0 04246 -0 76300 0 00006 LGL 6 04247 0 40200 0 01433 SUB L(X) 04250 -0 10000 0 04220 TNZ PL0240 04251 0 02000 0 04170 TRA PL0000 04252 0 76000 0 00001 PL0465 LBT 04253 0 02000 0 04260 TRA PL0470		4F14601
04253 0 02000 0 04260 TRA PL0470		4F14602
04254 0 56000 1 06652 LDQ SCRIPL+2+A 04255 -0 75400 0 00000 PXD +0 04256 -0 76300 0 00006 LGL 6 04257 0 02000 0 04213 TRA PL0135		4F14603
04255 -0 75400 0 00000 PXD +0	•	4F14604
04256 -0 76300 0 00006 LGL 6		4F14605 4F14606
04257 0 02000 0 04213 TRA PL0135	NOT AN EC NAME	4F14607
04260 0 50000 1 06652 PL0470 CLA SCRIPL+2+A	NOT AN PS NAME	4F14608
04261 0 53400 2 01406 LXA L(U)+B		4F14609
04262 0 34000 2 04732 PL0480 CAS 0PS08 B		4F14610
04263 1 77777 2 04266 TXI PLUDZUJEJEL		4F14611
04264 0 02000 0 04275 TKA PL0030		4F14612
04265 1 ///// 2 04266		4F14613
04266 3 11134 2 04262 PLU320 TAR PLU400909 20		4F14614
04207 0 60100 0 01347 510 0 04270 -0 42400 1 04222 SYD Pt 02604A		4F14615.
04270 -0 03400 1 04222		4F14616
04272 0 00000 0 00011 HTR 9		4F14617
04273 -0 53400 1 04222 LXD PL0260+A		4F14618
04274 0 02000 0 04244 TRA PL0461		4F14619
04275 -0 50000 0 01412 PL0650 CAL L(4)	SET OP1 (S(I)) 33 =1	4F14620
04276 -0 60200 1 06651 ORS SCRIPL+1+A		4F14621
04277 0 02000 0 04244 TRA PL0461		4F14622
04300 0 16200 0 04205 PL0680 TQP PL0130		4F14623
04301 -0 75400 0 00000 PXD 0+0	OP1 (S(I) IS **	4F14624
04302 0 56000 1 06652 LDQ SCRIPL+2+A	OBTAIN AND	4F14625
04303 -0 76300 0 00001 LGL 1	EXAMINE	4F14626 4F14627
04304 0 76000 0 00001 LBT	SYM1 (S(1))	4F14628
04305 0 16200 0 04363 TQP PL1000	EV AINSTERNAL VARIARIE	4F14629
04306 -0 76300 0 00005 LGL 5	TO OT FLY OF FLO PT	4F14630
04307 0 34000 0 01423 CAS L(H)	19 AL ETV OU LEA LE	4F14630 4F14631
04310 0 34000 0 01425 CAS LIVI		4F14632
04311 U UZUUU U U4514 TRA PLUGUU		4F14633
04252 0 76000 0 00001 PL0455 04254 0 56000 1 06652 LDQ SCRIPL+2+A 04255 -0 75400 0 00000 PXD +0 04256 -0 76300 0 00006 LGL 6 04257 0 02000 0 04213 04260 0 50000 1 06652 PL0470 CLA SCRIPL+2+A 04261 0 53400 2 01406 LXA L(0)+B 04262 0 34000 2 04732 PL0480 CAS OPSUB+B 04263 1 77777 2 04266 TXI PL0520+B+-1 04264 0 02000 0 04275 TRA PL0650 04265 1 77777 2 04266 TXI PL0520+B+-1 04266 3 77754 2 04262 PL0520 TXH PL0480+B+-20 04267 0 60100 0 01347 STO G 04270 -0 63400 1 04222 SXD PL0260+A 04271 0 07400 1 03321 TSX TETOO+A 04272 0 00000 0 00011 HTR 9 04273 -0 53400 1 04222 LXD PL0260+A 04274 0 02000 0 04244 TRA PL0461 04275 -0 50000 0 01412 PL0650 CAL L(4) 04276 -0 60200 1 06651 ORS SCRIPL+1+A 04277 0 02000 0 04244 TRA PL0461 04300 0 16200 0 04204 TRA PL0461 04301 -0 75400 0 00000 PXD 0+0 04302 0 56000 1 06652 LDQ SCRIPL+2+A 04303 -0 76300 0 00001 LBT 04305 0 16200 0 04205 PL0680 TQP PL0130 04306 -0 76300 0 00001 LBT 04305 0 16200 0 04306 TQP PL1000 04306 -0 76300 0 00001 LBT 04307 0 34000 0 01423 CAS L(H) 04310 0 34000 0 01425 CAS L(H) 04311 0 02000 0 04314 TRA PL08800 04312 0 02000 0 04314 TRA PL08800 04313 0 02000 0 04316 TRA PL08800 04314 -0 50000 0 01416 PL0800 CAL L(8)	FIX PT FLO PT SET OP1 (S(I)) 32 = 1	4F14634
04315 U UZUUU U U4316 - IRM FE0030	FLO PT SET OP1 (S(1)) 32 = 1	4F14635
04314 -0 50000 0 01418 PL0800 CAL LTG	, 20 , , , , , , , , , , , , , , , , , ,	4F14636
04313 -0 00500 1 0003T LF0050 002/2CK1/F/13V		-

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04316	-0	75400	0	00000	PL0830	שאל	COTEL 45 . A	OBTAIN AND EXAMINE SYM2 (S(I)) IS FLO PT. SO GO SET OP2 (S(I)) 32 = 1 SYM2(S(I)) IS FIX PT SYM2 (S(I)) IS EXTERNAL SYM2 (S(I)) IS INTERNAL (AND FIX PT) GO TO THE DIAGNOSTIC. # GO TO THE DIAGNOSTIC. EXP IS 0. SO OP1 (S(I)) 33 = 0 EXP NOT LESS THAN 7. SO OP1 (S(I)) 33 = 0 EXP LESS THAN 7. SO STORE EXP AS SYM2 (S(I)) AND SET OP1 (S(I)) 33 = 1 SYM2 (S(I)) IS FLO PT SET OP2 (S(I)) 32 = 1 SYM1 (S(I)) IS SOME S(J) XA TO XA.XB	4F14631
04317	0	56000	1	06655		LUG	SCRIPLTSIA	AND	4F14620
04320	-0	76300	0	00001		LGL	1	EVANTAIS	4F14640
04321	0	76000	0	00001		FRI	DI 1200	EXAMINE	4F14640
04322	0	16200	0	04402		IQP	PL1200	31M2 (3(1))	461444
04323	-0	76300	0	00005		LGL	5		4514442
04324	· 0	34000	0	01423		CAS	L(H)		4514643
04325	0	34000	0	01425		CAS	L(0)	C	4514644
04326	0	02000	0	04360		TRA	PL0940	SYM2 (S(1)) 15 FLO PI, 50 GO	4714645
04327	0	02000	0	04360		TRA	PL0940	SET OP2 (S(1)) 32 = 1	4714646
04330	-0	75400	0	00000	PL0850	PXD	0.0	SYM2(S(I)) IS FIX PT	4F14647
04331	-0	76300	0	00006		LGL	6		4F14648
04332	0	40200	0	01375		SUB	OPEN	A.M	4F14649
04333	-0	10000	0	04170		TNZ	PL0000	SYM2 (S(I)) IS EXTERNAL	4F14650
04334	-0	76300	0	00031		LGL	25	SYM2 (S(I)) IS INTERNAL (AND FIX PT)	4F14651
04335	0	40000	0	04352		ADD	PL0880		4F14652
04336	0	62100	0	04330		STA	PL0850		4514653
04337	0	76200	0	00302		RDR	FXCODR		4114654
04340	0	46000	0	04330		LDA	PL0850		4F 14655
04341	0	70000	0	01347		CPY	G		4F14656
04342	0	70000	0	01350		CPY	G+1		4F14657
04343	0	50000	0	01347		CLA	G	•	4F14658
04344	0	34000	0	01350		CAS	G+1		4F14659
04345	0	02000	0	04347		TRA	*+2	60 TO THE DIAGNOSTIC.	4F14660
04346	Q	02000	0	04350		TRA	PL1570		4F14661
04347	0	07400	4	03400		TSX	DIAG,4	# GO TO THE DIAGNOSTIC.	4F14662
04350	0	10000	0	04170	PL1570	TZE	PL0000	EXP IS 0, 50 OP1 $(S(I))$ 33 = 0	4F14663
04351	0	34000	0	03754		CAS	FEXUB		4F14664
04352	3	00000	0	00002	PL0880	TXH	FIXCON,0,0	EXP NOT LESS THAN 7. SO	4F14665
04353	0	02000	0	04170		TRA	PL0000	OP1 (S(1)) 33 = 0	4F14666
04354	0	60100	1	06655		STO	SCRIPL+5+A	EXP LESS THAN 7. SO STORE EXP	4F14667
04355	-0	50000	0	01412		CAL	L(4)	AS SYM2 (S(I)) AND SET	4F14668
04356	-0	60200	1	06651		ORS	SCRIPL+1.A	OP1 (S(I)) 33 = 1	4F14669
04357	0	02000	0	04170		TRA	PL0000		4F14670
04360	-0	50000	0	01416	PL0940	CAL	L(8)	SYM2 (S(I)) IS FLO PT	4F14671
04361	-0	60200	1	06654		ORS	SCRIPL+4+A	SET OP2 (S(I)) 32 = 1	4F14672
04362	0	02000	0	04170		TRA	PL0000		4F14673
04363	-0	53400	2	04364	PL1000	LXD	PL1010,B	SYMI (S(I)) IS SOME S(J)	4F14674
04364	1	00000	3	04365	PL1010	TXI	PL1020,3,0	XA TO XA•XB	4F14675
04365	-0	63400	4	04366	PL1020	SXD	PL1030+C		4F14676
04366	1	00000	2	04367	PL1030	TXI	PL1040,B,0		4F14677
04367	-0	50000	2	06650	PL1040	CAL	SCRIPL .B		4F14678
04370	0	73400	4	00000		PAX	0 • C		4F14679
04371	-0	32000	0	01452		ANA	MASK2		4F14680
04372	0	40200	1	06652		SUB	SCRIPL+2+A		4F14681
04373	0	10000	0	04377		TZE	PL1130		4F14682
04374	0	50000	4	05044		CLA	BETA , C		4F14683
04375	0	73400	4	00000		PAX	0 • C		4F14684
04376	0	02000	0	04365		TRA	PL1020	SYM2 (S(I)) = SOME S(K) XA TO XA•XB	4F14685
04377	-0	50000	2	06651	PL1130	CAL	SCRIPL+1,B		4F14686
04400	-0	32000	0	01416		ANA	L(8)		4F14687
04401	0	02000	0	04315		TRA	PL0820		4F14688
04402	-0	53400	2	04403	PL1200	LXD	PL1210.B	SYM2 (S(I)) = SOME S(K)	4F14689
04403	1	00000	3	04404	PL1210	TXI	PL1220,3,0	XA TO XA•XB	4F14690

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4F14691
04404 -0 53400 4 04416 PL1220 LXD PL1330 C
                                                   LKXC WITH -6
                                                                                              4F14692
04405 -0 63400 4 04406 PL1230 SXD PL1240+C
                                                                                              4F14693
04406 1 00000 2 04407 PL1240 TXI PL1250 +B+0
                                                                                              4F14694
04407 -0 50000 2 06650 PL1250 CAL SCRIPL.B
                                                                                              4F14695
04410 0 73400 4 00000
                             PAX O+C
                                                                                              4F14696
                             ANA MASK2
04411 -0 32000 0 01452
                                                                                              4F14697
                             SUB SCRIPL+5 A
04412 0 40200 1 06655
                                                                                              4F14698
                                                   SYM2(S(I)) = S(K)
04413 0 10000 0 04417
                             TZE PL1340
                                                                                              4F14699
                             CLA BETA,C
      0 50000 4 05044
04414
                                                                                              4F14700
                             PAX O+C
04415 0 73400 4 00000
                                                                                              4F14701
04416 1 77772 0 04405 PL1330 TXI PL1230.0.-6
                                                   SET OP2(S(I)) 32 = OP1(S(K)) 32
                                                                                              4F14702
04417 -0 50000 2 06651 PL1340 CAL SCRIPL+1.B
                                                                                              4F14703
                             ANA L(8)
04420 -0 32000 0 01416
                                                                                              4F14704
                             ORS SCRIPL+4+A .
04421 -0 60200 1 06654
                                                                                              4F14705
                             TRA PLOOOO
                                                   RESUME: SCAN
04422 0 02000 0 04170
                                                                                              4F14706
04423 -0 53400 1 04136 LK0000 LXD AS3600.A
                                                   -3Q TO XA
                                                                                              4F14707
04424 -0 50000 1 06645 LK0030 CAL SCRIPL-3+A
                                                   S(I) TO XB
                                                                                              4F14708
04425 0 73400 2 00000
                        PAX 0.B
                                                   EXIT UPON ENCOUNTERING S(0)
                                                                                              4F14709
                            TXL LK1610,8,0
04426 -3 00000 2 04633
                                                                                              4F14710
                                                   PLACE LAST OP OP S(I) IN MQ
                            LDQ SCRIPL-2+A
04427
      0 56000 1 06646
                                                                                              4F14711
                             CLA BETA B
      0 50000 2 05044
04430
                                                                                              4F14712
                             STD LK0110
     0 62200 0 04432
                                                   MOVE XA TO BEGINNING OF S(I)
                                                                                              4F14713
04432 1 00000 1 04433 LK0110 TXI LK0120.A.0
                                                                                              4F14714
04433 -0 53400 4 04434 LK0120 LXD LK0130.C
                                                                                              4F14715
04434 1 00000 5 04435 LK0130 TXI LK0140+5+0
                                                   XA TO XA,XC
                                                                                              4F14716
04435 -0 63400 1 04136 LK0140 SXD AS3600+A
                                                                                              4F14717
                             CLA BETA-1.B
04436 0 50000 2 05043
                                                                                              4F14718
                                                   LENGTH OF S(I-1) TO XB
                             PDX 0,B
04437 -0 73400 2 00000
                                                                                              4F14719
                             SXD LK0180.B
04440 -0 63400 2 04441
                                                   MOVE XC TO BEGINNING OF S(I-1)
                                                                                              4F14720
04441 1 00000 4 04442 LK0180 TXI LK0190+C+0
                                                                                              4F14721
04442 0 16200 0 04566 LK0190 TQP LK1200
                                                   S(I) TYPE AC
                                                                                              4F14722
04443 -0 77300 0 00001
                             RQL 1
                                                                                              4F14723
                                                   S(I) TYPE AC
                             TQP LK1200
04444 0 16200 0 04566
                                                   S(1) RESULTS IN MQ (TYPE MQ)
                                                                                              4F14724
                             CAL 12Z
04445 -0 50000 0 01404
                                                                                              4F14725
                            ORS SCRIPL+1.A
                                                   SET OP1 (S(I)) 31 = 1
04446 -0 60200 1 06651
                                                                                              4F14726
04447 -0 75400 0 00000
                            PXD 0,0
                                                                                              4F14727
                                                   PLACE OP1 (S(I-1)) IN MQ
                             LDQ SCRIPL+1,C
04450 0 56000 4 06651
                                                                                              4F14728
04451 -0 76300 0 00006
                             LGL 6
                                                                                              4F14729
                             CAS SPECOP
04452 0 34000 0 01427
                                                                                              4F14730
                             TRA LK0320
04453 0 02000 0 04456
                                                                                              4F14731
                             TRA LK0950
04454 0 02000 0 04543
                                                                                             4F14732
                                                   S(I)TYPTMQ, S(I-1)TYPEAC . OP1(S(I))29=0
                             TRA LK0030
      0 02000 0 04424
                                                                                              4F14733
04456 0 16200 0 04477 LK0320 TQP LK0570
                                                                                              4F14734
                                                   S(I) TYPE MQ , OP1(S(I-1) = **
                             LGL 27
04457 -0 76300 0 00033
                                                                                              4F14735
                             CAL SCRIPL A
04460 -0 50000 1 06650
                                                                                              4F14736
                                                   EXTRACT S(I) IN ACC
                             ANA MASK2
04461 -0 32000 0 01452
                                                                                              4F14737
                                                   OP1 (S(I-1)) 33 = 0
                             TQP LK0480
                             SUB SCRIPL+2,C
TNZ LK0030
CAL L(3)
04462 0 16200 0 04472
                                                   OP1 (S(I-1)) 33 = 1. OPEN ** SUBROUTINE.
                                                                                            4F14738
04463 0 40200 4 06652
                                                   SET OP1 (S(I)) 29 = OP1 (S(I-1)) 35 = 0
                                                                                              4F14739
04464 -0 10000 0 04424
                                                                                              4F14740
                                                   S(I) = SYM1 (S(I-1)), SO
04465 -0 50000 0 01411
                                                                                              4F14741
04466 -0 60200 4 06651 LK0430 ORS SCRIPL+1+C
                                                                                              4F14742
04467 -0 50000 0 01436 LK0440 CAL BIT29
                                                                                              4F14743
                             ORS SCRIPL+1,A
04470 -0 60200 1 06651
                                                   OP1 (S(I-1)) = 0. CLOSED ** SUBROUTINE.
                                                                                              4F14744
                             TRA LK0030
04471 0 02000 0 04424
```

```
4F14745
  04472 0 40200 4 06655 LK0480 SUB SCRIPL+5 C
  04473 -0 10000 0 04424 TNZ LK0030
                                                            SET OP1(S(I))29=OP1(S(I-1))35=0
                                                                                                            4F14746
                                                                                                         . 4F14747
                                                            S(I) = SYM2 (S(I-1)) + SO
                                   CAL L(1)
  04474 -0 50000 0 01407
  04476 0 02000 0 04467
                                                            SET OP2 (S(I-1)) 35 = 1
                                   ORS SCRIPL+4.C
                                                                                                           4F14748
                                   TRA LK0440
                                                                                                           4F14749
  04477 -0 75400 0 00000 LK0570 PXD 0,0
                                                            S(I) TYPE MQ, OP1 (S(I-1)) = *
                                                                                                           4F14750
                                   LDQ SCRIPL+4+C PLACE PO2 (S(I-1)) IN MQ

LGL 6 IS OP2 (S(I-1)) = *
                                                            PLACE PO2 (S(I-1)) IN MQ
                                                                                                           4F14751
  04500 0 56000 4 06654
 04501 -0 76300 0 00006 LGL 6
04502 0 40200 0 01405 SUB STAR
04503 -0 10000 0 04424 TNZ LK0030
04504 -0 50000 0 01410 CAL L(2)
04505 -0 60200 4 06651 ORS SCRIPL+1,C
                                                                                                           4F14752
                                                                                                           4F14753
                                                            NO - SET OP1 (S(I)) 29 = OP1 (S(I-1)) 35 = 04F14754
                                                            YES
                                                            SET OP1(S(I-1))34=1
                                                                                                           4F14756
  04506 -0 50000 1 06650 LK0630 CAL SCRIPL A
                                                                                                           4F14757
  04507 -0 32000 0 01452 ANA MASK2
                                                            SEARCH FOR S(I) IN S(I-1)
                                                                                                           4F14758
  04510 -3 00000 2 04423 LK0650 TXL LK0000 B +0
                                                            NOT FOUND AT ALL
                                                                                                           4F14759
  04511 0 34000 1 06647 CAS SCRIPL-1,A
                                                                                                           4F14760
  04512 1 00003 1 04515
04513 0 02000 0 04516
04514 1 00003 1 04515
                                                                                                           4F14761
                                   TXI LK0700,A,3
                                   TRA LK0710
TXI LK0700,A,3
NOT FOUND - CONTINUE SEARCH
                                                                                                           4F14762
                                                                                                           4F14763
  04515 1 77775 2 04510 LK0700 TXI LK0650,8,-3
04516 0 56000 1 06646 LK0710 LDQ SCRIPL-2,A
04516 0 56000 1 06646 LK0710 LDQ SCRIPL-2,A
15 OPJ (S(I-1)) = *
                                                                                                           4F14764
                                                                                                           4F14765
                                   RQL 1
TQP LK0750
                                                                                                           4F14766
  04521 1 00003 1 04515
04522 0 50003
                                                                                                           4F14767
                                                            NO ... CONTINUE SEARCH
                                   TXI LK0700+A+3
                                                                                                           4F14768
  04522 0 50000 4 06650 LK0750 CLA SCRIPL.C
                                                            YES...PERMUTE EL1(S(I-1)) WITH ELJ(S(I-1)) 4F14769
 EXCHANGE
                                                            TAG
                                                                                                           4F14771
                                                            WORDS
                                                                                                           4F14772
                                                            PLACE OP1 (S(I-1)) IN ACC
                                                                                                           4F14773
                                                            PLACE OPJ (S(I-1)) IN MQ
                                                                                                           4F14774
                                                            EXCHANGE
                                                                                                           4F14775
                                                                                                           4F14776
                                                            WORDS AND
                                                                                                           4F14777
                                                            SET OP1(S(I-1))30-33= OPJ(S(I-1))30-33
                                                                                                           4F14778
                                                            THEN
                                                                                                           4F14779
                                                            EXCHANGE
                                                                                                           4F14780
                                                            SYMBOL
                                                                                                           4F14781
                                                            WORDS
                                                                                                           4F14782
                                                            RESTORE XA
                                   LXD AS3600.A
                                                                                                           4F14783
  04540 -0 53400 1 04136
  04541 -0 50000 0 01407 LK0900 CAL L(1)
                                                            AND
                                                                                                           4F14784
                                   TRA LK0430
                                                                                                           4F14785
  04542 0 02000 0 04466
  04543 -0 77300 0 00033 LK0950 RQL 27
04544 -0 50000 1 06650 CAL SCRIPL A
                                                            S(I) TYPE MQ, OP1 (S(I-1)) = SPOP
                                                                                                           4F14786
CAL SCRIPL A
ANA MASK2
TOP LK1050
04547 3 00006 2 04424
04550 0 40200 4 06655
04551 -0 10000 0 04424
04552 -0 50000 0 01411
04553 -0 60200 4 06654
04554 0 02000 0 04467
04555 -0 77300 0 00017 LK1050
04556 0 16300
                                  TWP LK1050

TXH LK0030,B,6

SUB SCRIPL+5,C

TNZ LK0030

CAL L(31
                                                                                                           4F14787
                                                            EXTRACT S(I) IN ACC
                                                                                                           4F14788
                                                            OP1 (S(I-1)) 33 = 0 (CLOSED SUBROUTINE)
                                                                                                           4F14789
                                                            OPEN MULTIV. SET OP1 (S(I)) 29 = 0
                                                                                                           4F14790
                                                            OPEN UNIV. . . IS S(I) = SUM2 (S(I-1))
                                                                                                           4F14791
                                                            NO... SET OP1 (S(1))29 = OP2 (S(1-1))35 = 04F14792
                                                                                                           4F14793
                                   ORS SCRIPL+4,C
TRA LK0440
                                                            SET OP2 (S(I-1))34 = OP2 (S(I-1))35 = 1
                                                                                                           4F14794
                                                                                                           4F14795
                                                                                                           4F14796
                                                        TEST OP1(S(I-1))12
FN-NAME
  04556 0 16200 0 04560 TQP LK1100
                                                                                                           4F14797
                                   TRA LKO030
                                                                                                           4F14798
  04557 0 02000 0 04424
```

```
CLOSED UNIV. SBRTN
                                                                                              4F14799
04560 -3 00006 2 04424 LK1100 TXL LK0030+B+6
                                                                                              4F14800
                                                  CLOSED MULTIV. SBRTN
                             SUB SCRIPL+8,C
04561 0 40200 4 06660
                                                                                              4F14801
                                                   S(1) NOT = SYM3 (S (I-1))
                             TNZ LK0030
04562 -0 10000 0 04424
                                                                                              4F14802
                             CAL L(1)
                                                   S(I) = SYM3 (S(I-1)) + SO
04563 -0 50000 0 01407
                                                                                            4F14803
                                                   SET OP3 (S(I-1))35 = 1
                             ORS SCRIPL+7,C
04564 -0 60200 4 06657
                                                                                             4F14804
04565 0 02000 0 04467
                             TRA LK0440
                                                                                              4F14805
04566 -0 75400 0 00000 LK1200 PXD 0,0
                                                   S(I) TYPE AC
                                                   PLACE OP1 (S(I-1)) IN MQ
                                                                                              4F14806
                             LDQ SCRIPL+1+C
04567 0 56000 4 06651
                                                                                              4F14807
                             LGL 6
04570 -0 76300 0 00006
                                                                                              4F14808
04571 0 34000 0 01427
                             CAS SPECOP
                                                                                              4F14809
                             TRA LK1340
04572 0 02000 0 04604
                                                                                              4F14810
04573 0 02000 0 04622
                             TRA LK1470
                                                 S(I) TYPE AC, OP1 \{S(I-1)\} = + OR -
                                                                                              4F14811
                             CAL SCRIPL A
04574 -0 50000 1 06650
                                                                                              4F14812
                                                   SEARCH FOR S(I) IN S(I-1)
04575 -0 32000 0 01452
                             ANA MASK2
04576 -3 00000 2 04423 LK1280 TXL LK0000 B +0
                                                   NOT FOUND AT ALL
                                                                                              4F14813
                                                                                              4F14814
04577 0 34000 1 06647
                             CAS SCRIPL-1,A
                                                                                              4F14815
                             TXI LK1330.A.3
     1 00003 1 04603
04600
                                                   S(I) = SOME SYMJ (S(I-1))... GO PERMUTE
                                                                                              4F14816
                             TRA LK0750
04601 0 02000 0 04522
                                                                                              4F14817
                             TXI LK1330.A.3
                                                   NOT FOUND ... CONTINUE SEARCH
04602 1 00003 1 04603
                                                                                              4F14818
     1 77775 2 04576 LK1330 TXI LK1280.B.-3
                                                                                              4F14819
04604 0 16200 0 04612 LK1340 TQP LK1410
                                                                                              4F14820
                                                   S(I) TYPE AC, OP1 (S(I-1)) = **
                             CAL SCRIPLA
04605 -0 50000 1 06650
                                                                                              4F14821
                             ANA MASK2
04606 -0 32000 0 01452
                                                   IS S(I) = SYM1 (S(I-1))
                                                                                              4F14822
                             SUB SCRIPL+2,C
04607 0 40200 4 06652
                                                                                              4F14823
                                                   NO
04610 -0 10000 0 04424
                             TNZ LK0030
                                                                                              4F14824
                             TRA LK0900
                                                   YES
04611 0 02000 0 04541
                                                                                              4F14825
                                                   S(I) TYPE AC, OP1 (S(I-1)) = *
04612 -0 75400 0 00000 LK1410 PXD 0,0
                                                                                              4F14826
                             LDQ SCRIPL+4,C
04613 0 56000 4 06654
                                                                                              4F14827
                                                   IS OP2 (S(I-1)) = 1
                             LGL 6
04614 -0 76300 0 00006
                                                                                              4F14828
                             SUB SLASH
04615 0 40200 0 01402
                                                                                             4F14829
                                                   YES
                             TZE LK0630
64616 0 10000 0 04506
                                                                                             4F14830
                             CAL L(2)
                                                   NO
04617 -0 50000 0 01410
                                                   SET OP1 (S(I-1)) 34 = 1
                                                                                             4F14831
                             ORS SCRIPL+1,C
04620 -0 60200 4 06651
                                                                                             4F14832
04621 0 02000 0 04423
                             TRA LK0000
                                                   S(I) TYPE AC, OP1 (S(I-1)) = SPOP
                                                                                             4F14833
04622 -0 77300 0 00033 LK1470 RQL 27
                                                                                              4F14834
                             CAL SCRIPL A
04623 -0 50000 1 06650
                                                                                             4F14835
                                                   EXTRACT S(1) IN ACC
                             ANA MASK2
04624 -0 32000 0 01452
                                                                                             4F14836
Q4625 0 16200 0 04630
                             TQP LK1530
                                                   OPEN MULTIV.
                                                                                             4F14837
                             TXH LK0030 .B .6
04626 3 00006 2 04424
                                                                                             4F14838
04627 0 02000 0 04472 LK1520 TRA LK0480
                                                                                             4F14839
04630 -0 77300 0 00017 LK1530 RGL 15
                                                                                             4F14840
                             TQP LK0480
04631 0 16200 0 04472
                                                                                             4F14841
                                                   FN-NAME
                             TRA LK0030
04632 0 02000 0 04424
                                                   IS S(0) A SINGLE ELEMENT
                                                                                             4F14842
04633 -0 53400 2 05044 LK1610 LXD BETA.B
                                                                                             4F14843
Q4634 -0 75400 0 00000
                             PXD 0.0
                                                                                              4F14844
                             LDQ SCRIPL-2+A
04635 0 56000 1 06646
                                                                                             4F14845
                             TXH LK1780,8,3
                                                   NO
04636 3 00003 2 04655
                                                                                             4F14846
                             LGL 6
                                                   YES
04637 -0 76300 0 00006
                                                   IS OP (S(0)) = + OR -
                                                                                             4F14847
                             SUB 11Z
04640 0 40200 0 01401
                                                   OP (S(0)) = -
                                                                                             4F14848
                             TZE LKKOOO
04641 0 10000 0 04662
                                                                                             4F14849
                                                   OP (S(0)) = +
                            CAL SCRIPL+2
04642 -0 50000 0 06652
                                                   DOES SYM (S(0)) = S(1)
                                                                                             4F14850
                             ANA MASKI
04643 -0 32000 0 01527
                                                                                             4F14851
                           TNZ LKKOOO
04644 -0 10000 0 04662
                                                   YES - PLACE OP1 (S(1)) IN ACC
                                                                                             4F14852
                            CAL SCRIPL+4
04645 -0 50000 0 06654
```

	04646	-0	32000	0	01404			127	OP1 (S(1)) 31 = 0 SET OP (S(0)) 31 = 1 SET OP1 (S(1)) 29 = 1 S(0) TYPT AC S(0) TYPE AC S(0) TYPE MQ, SO -3Q TO XA,XC	4F14853 4F14854
			10000					LKK000	OP1 (S(11) 31 = 0	4F14855
			60200					SCRIPL+1	SET OF (S(0)) 31 = 1	4F14856
			76700				ALS	2	SET OP1 (S(1)) 29 = 1	4F14857
			60200					SCRIPL+4	SEI OPI (S(I)) 29 = 1	4F14858
			77100				ARS	6		4F14859
	04654	0	02000	0	04661			LK1820	CAN TURE AC	4F14860
	04655	0	16200	0	04662	LK1780	TQP	LKK000	SIU/ ITPI AC	4F14861
			77300				RQL	1	SIGN TYPE AC	4F14862
			16200					LKK000	SIGN TYPE MO. CO	4F14863
	04660	-0	50000	0	01404			12Z	S(U) THE MUY SO	4F14864
	04661	-0	60200	0	06651	LK1820	OKS	SCRIPL+1	-20 TO YA.YC	4F14865
	04662	-0	53400	5	01117	LKKOOO	LXD	3QBAR,5 SCRIPL-3,C	-30 10 ANSAC	4F14866
	04663	-0	50000	4	06645			SCRIPE-39C		4F14867
			73400					0 # B		4F14868
			50000					BETA B		4F14869
	04666	0	62200	0	04667			LKK050	BACK UP XA TO 1ST ELEMENT OF LAST SEGMENT	
	04667	1	00000	4	04670	FKKOSO	IXI		BACK OF AN TO 131 ELEMENT OF ENGL SEGMENT	4F14871
	04670	-0	75400	Ů.	00000	LKK060	PAD	SCRIBLAL.C	PLACE OP1 OF LAST SEGMENT IN MQ	4F14872
	04671	0	56000	4	00001		LGL		PENCE OF I OF END! DEGILENT IN THE	4F14873
			76300					STAR		4F14874
	04673	ŏ	40200	ŏ	01402			PC0000		4F14875
	04674	-0	10000	Ŏ	04/03		TOP	1 KK 130		4F14876
	04675	0	16200	Ò	040//		TDA	PC0000		4F14877
	94676	Ö	02000	ú	04103	1 4 4 1 2 0	INA	SCRIPLAG.C	OP1 OF LAST SEGMENT IS *	4F14878
• .	04677	O	56000	4	00000	FKKT30	LGL	2	OP1 OF LAST SEGMENT IS *	4F14879
	04100		10300	v	00002		LBT	2		4F14880
	04/01		76000 60200	v	04651			SCRIPL+1,C	OP2 IS *, SO SET OP1 (S(L)) 34 = 1	4F14881
	04702	-0	60200	4	01122	PCOOOO		ARGCTR • C	10 P. 10 AN EQ	4F14882
			00000				TXH	PC0030,C,0		4F14883
	04705	7	00001	4	04707			PC0040,C,1	NO	4F14884
	04705	å	53400	4	01406	PC0030			YES	4F14885
~ ~	04707	-0	50000	i	06645	PC0040	CAL	SCRIPL-3+A		4F14886
			73400			,	PAX	0 • B		4F14887
			00000				TXL	PC0190+B+0	EXIT AT S(0)	4F14888
	64712	õ	50000	2	05044		CLA	BETA + B		4F14889
	04713	0	62200	0	04714		STD	PC0100	NO YES EXIT AT S(0)	4F14890
	04714	1	00000	1	04715	PC0100	TXI	PC0110,A,0		4F14891
	94715	ō	56000	1	06651	PC0110	LDQ	SCRIPL+1.A	PLACE OP1 (S(I)) IN MQ	4F14892
			76300				LGL	30		4F14893
		٥	76000	0	00001		LBT		•	4F14894
	04720	ī	00454	ō	04722	PC0140	TXI	PC0160,0,300		4F14895
	04721	0	16200	0	04707		TQP	PC0040	OP1 $(S(1))$ 29= 1 AND OP1 $(S(1))$ 30 = 0	4F14896
	04722	-0	75400	4	00000	PC0160	PXD	0,C	OP1 $(S(I))$ 29 = 0 OR OP1 $(S(I))$ 30 = 1	4F14897
	04723	0	62200	2	05044		STD	BETA,B	STORE ERAS. REL. ADD. COUNT IN BETA,	4F14898
	04724	1	00001	4	04707			PC0040,C,1	AND UPDATE FOR NEXT SEGMENT	4F14899
	04725	-0	53400	2	04720	PC0190	LXD	PC0140 + B		4F14900
	04726	0	5000C	2	05520	PC0200	CLA	BETA+300,B		4F14901
	04727		60100				STO	CPBETA+300+B		4F14902
	04730	2	00001	2	04726			PC0200,B,1	GO FETCH STATE D	4F14903
	04731	0	02000	0	02410		TRA	STATED	GO FETCH STATE D	4F14904
								* * * * * * * *	* * * * * * * * * * * * * * * * * * * *	
										4F14906

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4F14907
                                    DICTIONARY OF OPEN SUBROUTINES FOLLOWS
04732 -272122626060
                        OPSUB
                               OCT 672122626060
                                                      XABS
                                                                                                   4F14908
                                                                                                   4F14909
04733 +212262606060
                               OCT 212262606060
                                                       ABS
                                                                                                   4F14910
04734 -273145636060
                               OCT 673145636060
                                                      XINT
                                                       INT
                                                                                                   4F14911
04735 +314563606060
                               OCT 314563606060
                                                      XMOD
                                                                                                   4F14912
04736 -274446246060
                               OCT 674446246060
                               OCT 444624606060
                                                      MOD
                                                                                                   4F14913
04737 -044624606060
                                                      XMAXO
                                                                                                   4F14914
04740 -274421670060
                               OCT 674421670060
                               OCT 442167016060
                                                      MAX1
                                                                                                   4F14915
04741 -042167016060
                                                                                                   4F14916
04742 -274421670160
                               OCT 674421670160
                                                      XMAX1
                                                                                                   4F14917
04743 -042167006060
                               OCT 442167006060
                                                      MAXO
                                                      XMINO
                                                                                                   4F14918
04744 -274431450060
                               OCT 674431450060
                               OCT 443145016060
                                                      MIN1
                                                                                                   4F14919
04745 -043145016060
04746 -274431450160
                               OCT 674431450160
                                                      XMIN1
                                                                                                   4F14920
                                                      MINO
                                                                                                   4F14921
04747 -043145006060
                               OCT 443145006060
                                                                                                   4F14922
                               OCT 264346216360
                                                      FLOAT
04750 +264346216360
                               OCT 672631676060
                                                      XFIX
                                                                                                   4F14923
04751 -272631676060
                               OCT 623127456060
                                                      SIGN
                                                                                                   4F14924
04752 -223127456060
                               OCT 676231274560
                                                      XSIGN
                                                                                                   4F14925
04753 -276231274560
                                                      XDIM
                                                                                                   4F14926
04754 -272431446060
                               OCT 672431446060
04755 +243144606060
                               OCT 243144606060
                                                      DIM
                                                                                                   4F14927
                                                                                                   4F14928
                  04756
                               BSS 10
                                                                                                  *4F14929
                  04770 ENDCDR BSS 0
                                                                                                   4F14930
                               ORG 2596
                                                                                                   4F14931
                  05044 ENDC
                  05044 BETA
                               BSS 300
                                                                                                   4F14932
                                    END OF ARITHMETIC / STATE C.
                                                                                                  *4F14934
                                                                                                   4F14935
                                   ARITHMETIC / STATE D=
                                                                                                   4F14936
                                   704 FORTRAN MASTER RECORD CARD / STATE D = F0160000.
                                                                                                   4F14937
                               ORG 0
                                                                                                   4F149371
                  00000
00000 0 00471 0 03440
                               PZE ORGD . CLDROO
                                                                                                   4F149372
                               PZE ENDD-1
                                                                                                   4F149373
00001 0 00000 0 06157
                                                                                                   4F14938
                               ORG 1824
                                                                                                   4F14939
                  03440 ORGD
03440 -0 53400 1 01117 MC0000 LXD 3QBAR,A
                                                      MODE CHECKING ROUTINE
                                                                                                   4F14940
                                                                                                   4F14941
                               SXD MC0420 , A
03441 -0 63400 1 03512
03442 0 53400 1 01406
                               LXA L(0) .A
                                                                                                   4F14942
                                                                                                   4F14943
03443 -0 63400 1 03461 MC0030 SXD XASAVE+A
03444 -0 50000 1 06650
                               CAL SCRIPL A
                                                                                                   4F14944
                                                                                                   4F14945
                                                      S(I) TO XB
       0 73400 2 00000 MC0050 PAX •2
03445
                                                                                                   4F14946
      0 50000 2 06174
                               CLA CPBETA,B
                                                                                                   4F14947
03447 0 73400 2 00454 MC0070 PAX TAU2+B
                                                                                                   4F14948
03450 -0 63400 2 03511
                               SXD MC0410,B
                                                                                                   4F14949
03451 -0 63400 2 03516
                               SXD MC0460.8
                                                      SINGLE ELEMENT - GO ONTO S(1+1)
                                                                                                  4F14950
                               TXH MC0410,B,-6
      3 77772 2 03511
                                                      TURN OFF ALL SENSE LITES
                                                                                                  4F14951
      0 76000 0 00140
                               SLF
03453
                               PXD 0.0
                                                      CLEAR ACC
                                                                                                  4F14952
03454 -0 75400 0 00000
                               LDQ SCRIPL+1.A
                                                      PLACE OP1 (S(I)) IN MQ
                                                                                                  4F14953
03455 0 56000 1 06651
                                                                                                  4F14954
03456 -0 76300 0 00006
                               LGL 6
                               CAS SPECOP
                                                                                                  4F14955
03457 0 34000 0 01427
                               TQP MC0180
                                                                                                  4F14956
03460 0 16200 0 03462
```

			_		VACAVE	T U 7	MC0430-0-0		4F14957
03461	ì	00000	ŏ	03511	XASAVE	IXI	MC04109090	OP1 (S(11)) = ++ - OR *	4F14958
03462 -	-0	16300	Ď	00032	MCOTOO	TOD	MC0210	FIY DT	4F14959
03463	Ŏ	16200	Ö	03463		CLA	7	FLO PT	4F14960
03464	Û	76000	Ö	00141	460010	SER	0.0	120 71	4F14961
03465 -	-0	75400	Ü	00000	MC0210	100	CCDTBL +3 · A	DI ACE SYM! (S(1)) IN MO - 1 = 10000	4F14962
03466	0	56000	1	06652		LDQ	SCRIPL+29A	PLACE SIND (S(1)) IN MG - 0 - 1900	4F14963
03467 -	-0	76300	0	00001		LGL	1		4F14964
03470	0	76000	0	00001		TOP	MC0///0		4F14965
03471	0	16200	0	03514		102	MC0440	CVM I ISITE IS A VARIARIF	4F14966
03472 -	-0	76300	0	00005		LGL	2	SIND (S(III) IS A VANIABLE	4F14967
03473	0	34000	0	01423		CAS	L(H)		4F14968
03474	0	34000	0	01425	VD C 4 V C	CAS	L(U)	ELO DT	4F14969
03475	1	00000	0	03502	YRSAAF	1 7 1	MC03409090	FLO PT	4F14970
03476	0	02000	0	03502	W50010	CLT	MC0340	CVM: (C/IN) IS A FIX PT VARIARIF	4F14971
03477 -	-0	76000	0	00141	MC0310	SLI	1 MC0380 - P - 3	Or	4F14972
03500	1	00003	2	03506		IXI	MCU38U9D93	EDDOD - FLO DT LITE ON	4F14973
03501	0	07400	4	03400	MC0240	138	DIAGIA	SYMICS (TILL IS A FLO PT VARIABLE	4F14974
03502 -	-0	76000	Ó	00141	MC0340	SLI	DIAG . 4	EPPOP. FLO PT LITE OFF	4F14975
03503	0	07400	4	03400		124	DIAG94	DESTADE FLA PT LITE	4F14976
03504	0	76000	Đ	00141		SLN	HC0380-B-3	RESIONE 1 EO 11 E11E	4F14977
03505	1	00003	2	03506		101	MC05009093	EINICHED WITH SIII	4F14978
03506 -	-3	00000	2	03510	MC0380	TXL	MC0210-A3	CONTINUE SCANNING SCILA J TO J+1	4F14979
03507	1	77175	1	03465		IXI	MCUZIUJAJ-J	CO TO SILLLY	4F14980
03510 -	-0	53400	1	03461	MC0400	LAD	MCO/20 A O	00 10 3(1+17	4F14981
03511	1	00000	1	03512	MC0410	1 X I	MC04209A90	·	4F14982
03512	3	00000	1	03443	MC0420	HAI	MC0030 \$A \$ 0	EVIT TO COMPLIER	4F14983
03513	0	02000	0	03537		IKA	CPUUUU	EXII TO COMPLEX	4F14984
03514 -	-0	63400	2	03475	MC0440	SXD	XBSAVE 9B	STMD (STITE - SAME STATE	4F14985
03515 -	-0	53400	4	03461		LXU	XASAVE 9C	MOVE VC TO 1ST FLEMENT OF SITHIT	4F14986
03516	1	00000	4	03517	MC0460	IXI	MCU4709C9U	MOVE AC TO 131 ELEMENT OF STILL	4F14987
03517 -	-0	50000	4	06650	MC0470	CAL	SCRIPLIC	EVIDACT SIKE IN ACC	4F14988
03520 -	-0	32000	0	01452		ANA	COID +2.A	AND COMPARE WITH SYMI (S(1))	4F14989
03521	0	34000	Ī	06652		CAS	SCRIPLTZ JA	AND COMPANE WITH STHE TOTAL	4F14990
03522	0	02000	0	03524		TRA	MC0520		4F14991
03523	0	02000	0	03531	WC0530	DAY	ELCHAI - B	SIKI TO YR	4F14992
03524	0	73400	2	01226	MCUSZU	CLA	CODETA-B	S(K) IO AD	4F14993
03525	0	50000	2	06174	WC0540	CLA	TALLIAD		4F14994
03526	0	73400	2	00000	MCU540	CVD	MCOEGO-B		4F14995
03527 -	-0	63400	2	03530	MCDE CO	270	MC0470C-0		4F14996
03530	1	00000	4	03517	MCOSTO	1 1 7 7	VDCAVE AR	SYMU (S(II)) = S(K) FOR SOME K	4F14997
03531 -	-0	53400	2	05415	MCO210	CAL	CCDIDI +1 -C	PLACE OP1 (S(K1) IN ACC	4F14998
03532 -	-0	50000	4	10000		ADE	2 CRIFLTIFC	I BONG OF A TOTALLY AND DOG	4F14999
03533	0	77100	0	00003		AKO	,	•	4F15000
03534	0	76000	0	00001		TDA	MC0310	CIKI IS FIX PT	4F15001
03535	0	02000	0	03411		TDA	MC0340	SIKI IS FIN PT	4F15002
03536	0	02000	U	03502		IKA	MCU34U	ALM TO LEG LE	4F15003
	•	7/000	_	00140	CRAACA	CI F		TURN OFF ALL SENSE LITES	4F15004
03537	0	16000	0	00140	CPUUUU	OLT CTT	ENCW	/ ALL OFFICE STIES	4F15005
03540	0	60000	Ú	06160		214	ADGCTD .C	IS THIS AN ES STATEMENT	4F15006
03541 -	-0	53400	4	01142		TY	CDOOOL COO	NO.	4F15007
03542 -	-3	00000	4	03250		TEV	CI TOO.C	VES - COMPILE FOUR 36 - RIT	4F15008
03543	0	07400	4	01/31		I DA	ALL 1	STRINGS IN 1 AS A PRELUDE TO	4F15009
03544	0	00000	Û	01231		HTD	ALL I	ES STATEMENT COMPILATION	4F15010
03545	0	00000	U	01531		HIK	ALLI	OP1 (S(I)) = +, - OR * FIX PT FLO PT PLACE SYMJ (S(I)) IN MQ - J = 1**** SYMJ (S(I)) IS A VARIABLE FLO PT FLO PT SYMJ (S(I)) IS A FIX PT VARIABLE OK ERROR.** FLO PT LITE ON SYMJ(S(I)) IS A FLO PT VARIABLE ERROR.** FLO PT LITE FINISHED WITH S(I) CONTINUE SCANNING S(I)** J TO J+1 GO TO S(I+1) EXIT TO COMPILER SYMJ (S(ITT = SAME S(K) MOVE XC TO 1ST ELEMENT OF S(I+1) EXTRACT S(K) IN ACC AND COMPARE WITH SYMJ (S(I)) S(K) TO XB SYMJ (S(I)) = S(K) FOR SOME K PLACE OP1 (S(K)) IN ACC S(K) IS FIX PT S(K) IS FLO PT TURN OFF ALL SENSE LITES IS THIS AN FS STATEMENT NO YES - COMPILE FOUR 36 - BIT STRINGS IN 1 AS A PRELUDE TO FS STATEMENT COMPILATION	

```
4F15011
                                HTR ALL1
       0 00000 0 01531
03546
                                                                                                       4F15012
                                HTR ALL1
       0 00000 0 01531
                                                                                                       4F15013
03550 -0 50000 0 00030 CP0090 CAL EIFNO
                                                                                                       4F15014
                                ANA MASKI
03551 -0 32000 0 01527
                                                 STO INT. FORM. NO. IN DEC. FIELD OF CW. -3Q TO XA EXTRACT CURRENT S(I)
                                                                                                       4F15015
03552 0 60200 0 06164
                                SLW CW
                                                                                                       4F15016
                                LXD 3QBAR+A
03553 -0 53400 1 01117
                                                                                                       4F15017
       0 50000 1 06645 CP0130 CLA SCRIPL-3,A
03554
                                                                                                       4F15018
       0 73400 2 00000 CP0140 PAX •2
03555
                                                                                                       4F15019
                                CLA CPBETA+B
03556
       0 50000 2 06174
                                                     STO ERAS. REL. ADD. IN PHI (I)
                                                                                                       4F15020
                                STD PHI(I)
03557 0 62200 0 01363
                                                                                                       4F15021
                                ANA MASK2
03560 -0 32000 0 01452
                                                                                                       4F15022
       0 73400 2 01356 CP0180 PAX TAU3,B
03561
                                                                                                      4F15023
                                SXD CP0400 B
03562 -0 63400 2 03607
                                                                                                       4F15024
                                COM
       0 76000 0 00006
03563
                                                                                                       4F15025
                                ADD L(1)
       0 40000 0 01407
03564
                                                                                                       4F15026
                                ALS 18
       0 76700 0 00022
03565
                                STD CP0240
       0 62200 0 03567
03566
03567 1 00000 1 03570 CP0240 TXI CP0250+A+0 MOVE XA TO 1ST ELEMENT OF CURRENT S(I)
                                                                                                      4F15028
                                                                                                      4F15029
03570 -0 63400 1 01117 CP0250 SXD 3QBAR+A
                                LDQ SCRIPL+1.A
                                                     EXAMINE OP1 (S(I)) 29.30.31.32
                                                                                                      4F15030
      0 56000 1 06651
                                                                                                      4F15031
                                LGL 30
03572 -0 76300 0 00036
                                                                                                      4F15032
     4F15032
0 02000 0 03576 TRA CP0310 OP1 (S(1)) 29 = 0 4F15033
0 16200 0 03604 TOP CP0370 OP1 (S(1)) 30 = 0
0 76000 0 00141 CP0310 SLN 1 OP1 (S(1)) 29 = 0 OR OP1 (S(1)) 30 = 1, SO 4F15036
0 77300 0 00001 RQL 1 SET STORE LITE 4F15036
0 16200 0 03602 TOP CP0350 OP1 (S(1)) 31 = 0, SO SET STO LITE 4F15037
0 76000 0 00142 SLN 2 OP1 (S(1)) 31 = 1, SO SET STQ LITE 4F15038
-0 77300 0 00001 CP0350 RQL 1
       0 76000 0 00001
                                LBT
03573
03574
03576
03577 -0 77300 0 00001
03600
03602 -0 77300 0 00001 CP0350 RQL 1
                                TRA CP0380
                                                                                                      4F15040
       0 02000 0 03605
                                                                                                      4F15041
03604 -0 77300 0 00002 CP0370 RQL 2
                                                    TEST OP1 (S(I)) 32
                                                                                                      4F15042
      0 16200 0 03611 CP0380 TQP CP0420
                                                        OP1 (S(1)) 32 = 1, SO SET FLPTSW
                                                                                                      4F15043
                                SLT 4
03606 -0 76000 0 00144
                                                                                                      4F15044
      3 00000 0 00000 CP0400 TXH 0,0,0
03607
                                                                                                      4F15045
03610 0 02000 0 03612
                                TRA CP0430
                                                    OP1 (5(1)) 32 = 0, SO SET FXPTSW
                                                                                                      4F15046
03612 -0 75400 0 00000 CP0430 PXD 0,0
                                                                                                      4F15047
                                LDQ SCRIPL+1,A PLACE OP1 (S(I)) IN MQ
                                                                                                      4F15048
03613 0 56000 1 06651
                                LGL 6
CAS SPECOP
                                                                                                      4F15049
03614 -0 76300 0 00006
                                                                                                      4F15050
      0 34000 0 01427
03615
                                                                                                      4F15051
                                TXI CP0960.0.0
       1 00000 0 03672
03616
                                                                                                      4F15052
03617 1 77775 1 04026
                                TXI CP2040,A,-3
                                                                                                      4F15053
       0 40200 0 01401
                                SUB 112
03620
                                                                                                      4F15054
                                TZE CP0760
       0 10000 0 03650
03621
                                                                                                      4F15055
                                                        OP1 (S(I)) = +
                                LGL 29
03622 -0 76300 0 00035
                                                                                                      4F15056
                                TQP CP1130
                                                    OP1 (S(I)) 35 = 0
      0 16200 0 03710
                                                                                                   4F15057
03624 -0 53400 2 03607 CP0540 LXD CP0400+B
                                                        OP1 (S(I)) 35 = 1
                                                                                                      4F15058
                                TXI CP0560,B,3
03625 1 00003 2 03626
                                                 GO TO END-OF-SEGMENT SBRTN
03626 -3 00000 2 04622 CP0560 TXL ES0000,B,0
                                                                                                     4F15059
                                                                                                      4F15060
03627 -0 63400 2 03607
                                SXD CP0400 B
                                                                                                      4F15061
                                TXI CP0590+A+-3
      1 77775 1 03631
03630
                                                                                                      4F15062
03631 -0 75400 0 00000 CP0590 PXD 0+0
                                                 PLACE OPJ (S(I)) IN MQ
                                                                                                      4F15063
03632 0 56000 1 06651
                                LDQ SCRIPL+1.A
                                                                                                      4F15064
03633 -0 76300 0 00006
                                LGL 6
```

	^	24000	^	01405		CAS	STAP	<pre>OPJ (S(1)) = / OPJ (S(1)) = * OPJ (S(1)) = + OPJ (S(1)) = + FIX PT. RESTORE FXPTSW OP1 (S(1)) = - OP1 (S(1)) 35 = 1, SO COMPILE CHS FOR 1ST ELEMENT OP1 (S(1)) 35 = 0, SO COMPILE CLS SYM1 (S(1)) FOR 1ST ELEMENT OPJ (S(1)) = - FIX PT. RESTORE FXPTSW</pre>	4F15065
03634	Ö	02000	ď	01405		TRA	CP1200	OPJ(S(I)) = /	4F15066
03635	٥	02000	ň	03771		TRA	CP1720	OPJ (S(I)) = *	4F15067
03030	. 0	40200	ň	01401		SUB	117		4F15068
03660	٥	10000	Ď	03663		TZF	CP0880	QPJ (S(I)) = -	4F15069
03640	-0	50000	ň	01550		CAL	L(FAD)	OPJ (S(I)) = +	4F15070
02442	-0	76000	č	00144		SLT	4		4F15071
03642	-0	10000	ň	03646		TRA	CP0740		4F15072
02644	ň	76000	ň	00144		SLN	4	FIX PT. RESTORE FXPTSW	4F15073
03645	-0	50000	ñ	01532		CAL	1 (ADD)		4F15074
03646	-0	60200	õ	06165	CP0740	SLW	CW+1		4F15075
02647	0	02000	ñ	03766		TRA	CP1690		4F15076
03650	-0	76300	õ	00035	CP0760	LGL	29	OP1 (S(I)) = -	4F15077
03651	o	16200	ŏ	03660		TOP	CP0850		4F15078
03652	-0	50000	ŏ	01540		CAL	L(CHS)	OP1 (S(I)) 35 = 1, S0	4F15079
03653	0	60200	Õ	06165		SLW	CW+1	COMPILE CHS FOR 1ST ELEMENT	4F15080
03654	ō	60000	ŏ	06166		STZ	CW+2		4F15081
03655	ō	60000	Õ	06167		STZ	CW+3		4F15082
03656	ō	07400	2	05104		TSX	COMP +B		4F15083
03657	ŏ	02000	ō	03624		TRA	CP0540		4F15084
03660	-0	50000	0	01543	CP0850	CAL	L(CLS)	OP1 (S(1)) 35 = 0, S0	4515085
03661	0	60200	0	06165		SLW	CW+1	COMPILE CLS SYM1 (S(II) FOR 1ST ELEMENT	4715086
03662	0	02000	0	03712		TRA	CP1150		4515087
03663	-0	50000	0	01553	CP0880	CAL	L(FSB)	$OPJ \; (S(I)) \; = \; -$	4715088
03664	-0	76000	0	00144		SLT	4		4715089
03665	0	02000	0	03670		TRA	CP0940		4715090
03666	0	76000	0	00144		SLN	4	OPJ (S(I)) = - FIX PT. RESTORE FXPTSW OP1 (S(I)) = * TURN LITE 3 ON TEST OP1 (S(I)) 34 OP1 (S(I)) 34 = 0, SO LEAVE LITE 3 ON OP1 (S(I)) 34 = 1, SO TURN LITE 3 OFF OP1 (S(I)) 35 = 1, SO GO MODIFY J	4515091
03667	-0	50000	0	01574		CAL	L(SUB)		4F15092
03670	0	60200	0	06165	CP0940	SLW	CW+1		4612032
03671	0	02000	0	03766		TRA	CP1690		4F15005
03672	0	16200	0	03674	CP0960	TQP	CP0980	•	4F15095
03673	0	02000	0	04363	_	TRA	CP4140	AB3 464111 - K	4F15097
03674	-0	76300	0	00035	CP0980	LGL	29	UP1 (5(1)) = *	4F15098
03675	0	76000	0	00143		SLN	3	THE OR ASSESSED TO	4F15099
03676	0	76000	0	00001		FRI	601050	ODI (S(II) 34 = 0. SO (FAVE LITE 3 ON	4F15100
03677	0	02000	0	03702		IKA	CP1050	OD1 (5(1)) 34 = 1. SO TURN LITE 3 OFF	4F15101
03700	-0	76000	0	00143		SLI	3	OPI (5(1)) 54 = 19 50 TORR ELIE 5 511	4F15102
03701	3	00000	0	00000		IXH	09090	•	4F15103
03702	0	16200	0	03704	CP1050	TOA	CP1070	001 (SITE) 35 = 1. SO GO MODIFY J	4F15104
03703	0	02000	Ŏ	03624	CD1070	CAL	1/1003	OP1 (S(1)) 35 = 0	4F15105
03704	-0	50000	0	01226	CP1070	CAL	2	VF1 (3(1)) 35 - 0	4F15106
03705	-0	76000	õ	00143		TDA	CP1140	FL1 (S(II) TO MQ	4F15107
03706	Ü	02000	Ö	001/11		CIN	2	FL1 (S(III) TO ACC	4F15108
03/0/	v	76000	ŏ	01561	CD1120	CAL	I (CLA)		4F15109
03710	-0	60200	0	01341	CP1140	SIW	CW+1		4F15110
02711	v	07/00		06112	CP1150	TSY	AC0000 • C	ADDRESS COMPILE SYM1 (S(I))	4F15111
03/12	Ü	07400	7	05104	CL 1130	TSY	COMP & B		4F15112
03/13	v	40000	6	05104		ST7	CW	RESET CW	4F15113
03/14	v	02000	0	03634		TRA	CP0540	OP1 (S(I)) 35 = 1, SO GO MODIFY J OP1 (S(I)) 35 = 0 EL1 (S(II) TO MQ EL1 (S(II) TO ACC ADDRESS COMPILE SYM1 (S(I)) RESET CW GO MODIFY J OPJ (S(I)) = / PREDECESSOR IN ACC FLO PT•	4F15114
02712	-0	74000	0	00142	CP1200	SLT	3	OPJ(S(1)) = /	4F15115
02717	-0	10000	0	03721	CF 1200	TRA	CP1330	· · · · · · · · · · · · · · · · · · ·	4F15116
02720	C	74000	0	00144		SLT	4	PREDECESSOR IN ACC	4F15117
02721	-0	02000	0	03764		TRA	CP1670	FLO PT+	4F15118
USIZI	. •	02000	J	05104				· · ·	

				4515130
03722 0 76000 0 00144 SLM	4	FIX PT RESTORE FXPISW		4F15119
03723 0 07400 4 01731 TSX	C1100+C	COMPILE LKS 35		4: 15120 4E15121
03724 0 00000 0 01406 HTR	L(0)			4F35122
03725 0 00000 0 01560 HTF	L(LKS)		•	4F15122
03726 0 00000 0 01406 HTF	L(0)			4515125
03727 0 00000 0 01472 HTF	DEC35			4612124
03730 0 02000 0 03734 TRA	CP1450			4515122
03731 -0 76000 0 00144 CP1330 SLT	4	PREDECESSOR IN MQ		4515120
03732 0 02000 0 03753 TRA	CP1570	AND SEGMENT IS		4515120
03733 0 76000 0 00144 SLM	1 4	FIX PT. RESTORE FXPTSW		4515120
03734 0 50000 0 01547 CP1450 CLA	L(DVP)			4515129
03735 0 60100 0 06165 STC) CW+1			4515130
03736 0 07400 4 05112 TSX	AC0000 + C	ADDRESS COMPILE SYMJ (S(1))		4515131
03737 0 07400 2 05104 TSX	COMP • B	COMPILE DVP SYMJ (S(1))		4515132
03740 0 07400 4 01731 TSX	CITOO+C	COMPILE CLM		4710133
03741 0 00000 0 01406 HTR	L(0)			4515134
03742 0 00000 0 01542 HTR	L(CLM)			4515135
03743 0 00000 0 01406 HTR	L(0)	•		4515136
03744 0 00000 0 01406 HTR	L(0)			4F15137
03745 0 07400 4 01731 TSX	CITOO+C	COMPILE LLS 18		4F15138
03746 0 00000 0 01406 HTR	L(0)		•	4F15139
03747 0 00000 0 01557 HTR	L(LLS)			4F15140
03750 0 00000 0 01406 HTR	L(0)			4F15141
03751 0 00000 0 01466 HTR	DEC18			4F15142
03752 0 02000 0 03624 TRA	CP0540	GO MODIFY J	•	4F15143
03753 0 50000 0 01573 CP1570 CLA	L(STQ)	PREDECESSOR IN MQ		4F15144
03754 0 60100 0 06165 STC	CW+1	AND SEGMENT IS FLO PT		4F15145
03755 0 50000 0 01505 CLA	X (4F15146
03756 0 60100 0 06166 STC	CW+2			4515147
03757 0 60000 0 06167 STZ	CW+3			4F15148
03760 0 07400 2 05104 TSX	COMP • B	COMPILE STQ 700000		4F15149
03761 0 50000 0 01541 CLA	L(CLA)			4F15150
03762 0 60100 0 06165 STO	CW+1			4F15151
03763 0 07400 2 05104 TSX	COMP +B	COMPILE CLA 700000		4F15152
03764 0 50000 0 01551 CP1670 CLA	L(FDP)		·	4F15153
03765 0 60100 0 06165 STC	CW+1	COMPILE FDP SYMJ (S(I))		4F15154
03766 0 07400 4 05112 CP1690 TSX	AC0000+C	ADDRESS COMPILE SYMJ (S(I))		4F15155
03767 0 07400 2 05104 TSX	COMP .B			4F15156
03770 0 02000 0 03624 TRA	CP0540	GO MODIFY J		4F15157
03771 -0 76000 0 00143 CP1720 SLT	3	OPJ(S(I))=*		4F15158
03772 0 02000 0 04004 TRA	CP1840			4F15159
03773 0 50000 0 01572 CLA	L(STO)	PREDECESSOR IN ACC		4F15160
03774 0 60100 0 06165 STC	CW+1			4F15161
03775 0 50000 0 01505 CLA	X (4F15162
03776 0 60100 0 06166 STC	CW+2			4F15163
03777 0 60000 0 06167 STZ	CW+3			4F15164
04000 0 07400 2 05104 TSX	COMP .B	COMPILE STO 700000		4F15165
04001 0 50000 0 01556 CLA	L(LDQ)			4F15166
04002 0 60100 0 06165 STC	CW+1			4F15167
04003 0 07400 2 05104 TSX	COMP .B	COMPILE LDQ 700000		4F15168
04004 0 76000 0 00143 CP1840 SLN	3	TURN LATE 3 ON		4F15169
04005 0 07400 4 05112 TSX	AC0000 • C	PREDECESSOR IN MQ AND SEGMENT IS FIX PT. RESTORE FXPTSW ADDRESS COMPILE SYMJ (S(I)) COMPILE DVP SYMJ (S(I)) COMPILE CLM COMPILE LLS 18 GO MODIFY J PREDECESSOR IN MQ AND SEGMENT IS FLO PT COMPILE STQ 700000 COMPILE CLA 700000 COMPILE FDP SYMJ (S(I)) ADDRESS COMPILE SYMJ (S(I)) GO MODIFY J OPJ(S(I))=* PREDECESSOR IN ACC COMPILE STO 700000 COMPILE STO 700000 COMPILE STO 700000 COMPILE STO 700000 COMPILE LDQ 700000 TURN LATE 3 ON ADDRESS COMPILE SYMJ(S(I))		4F15170
04006 -0 76000 0 00144 SLT	4			4F15171
04007 0 02000 0 04022 TRA	CP2000			4F15172
A4001 A 05000 A 41055	3			

									•
04010	0	76000	0	00144		SLN	4	FIX PT. RESTORE FXPTSW	4F15173
04011	0	50000	0	01562		CLA	L(MPY)	•	4F15174
04012	0	60100	0	06165		STO	CW+1		4F15175
04013	0	07400	2	05104		TSX	COMP • B	COMPILE MPY SYMJ(S(I))	4715176
04014	0	07400	4	01731		TSX	CITOO+C	COMPILE ALS 17	4F15177
04015	0	00000	0	01406		HTR	L(0)		4F15178
04016	0	00000	0	01533		HTR	L(ALS)		4F15179
04017	0	00000	0	01406		HTR	L(0)		4F15180
04020	0	00000	0	01465		HTR	DEC17		4515181
04021	0	02000	0	03624		TRA	CP0540	GO MODIFY J	4F15182
04022	0	50000	٥	01552	CP2000	CLA	L(FMP)	FLO PT•	4515183
04023	0	60100	0	06165		STO	CW+1		4515184
04024	0	07400	2	05104		TSX	COMP • B	COMPILE FMP SYMJ(S(I))	4F15185
04025	0	02000	0	03624		TRA	CP0540	GO MODIFY J.	4F15186
04026	-0	76300	0	00007	CP2040	LGL	7	OP1(S(I))=SPOP	4F15187
04027	0	76000	0	00001		LBT		TEST OPI(S(I))12	4515188
04030	.0	16200	0	04150		TQP	CP2650	LIB OR OPEN FUNCTION	4F15189
04031	0	16200	0	04473		TQP	CP5000	FN-FUNCTION .	4F15190
04032	-0	75400	0	00000		PXD	0 • 0	FS-FUNCTION	4515191
04033	0	76300	0	00017		LLS	15	PUT TYPE NO IN ADD (ACC)	4F15192
04034	-0	50100	0	01503		ORA	P(FORM 4TYPE NO.	4F15193
04035	0	60200	0	06162		SLW	ARGORG	AND STO IN ARGORG	4F15194
04036	-0	32000	0	01452		ANA	MASK2		4F15195
04037	-0	50100	0	01505		ORA	X (FORM 7 ** * TYPE NO *	4F15196
04040	0	60200	0	06163		SLW	XRSAVE	AND STO IN XRSAVE	4F15197
04041	0	50000	1	06651		CLA	SCRIPL+1;A		4F15198
04042	0	76000	0	00001		LBT		EXAMINE OP2(S(I))35	4F15199
04043	0	02000	0	04052		TRA	CP2150	1ST ARG STORED	4F15200
04044	0	07400	4	01731	CP2100	TSX	CITOO,C	1ST ARG IN ACC	4F15201
04045	0	00000	0	01406		HTR	L(0)	COMPILE STO 4TYPE NO. + 0	4F15202
04046	0	00000	0	01572		HTR	L(STO)		4F15203
04047	0	00000	0	06162		HTR	ARGORG		4515204
04050	0	00000	0	01406		HTR	L(0)		4F 15205
04051	1	77775	1	04057		TXI	CP2200+A+-3	GO ON TO OP3(S(1))	4F15206
04052	-0	50000	0	01541	CP2150	CAL	L(CLA)		4515201
04053	0	60200	0	06165		SLW	CW+1		4515208
04054	0	07400	4	05112		TSX	AC0000 • C	ADDRESS COMPILE SYM2(S(1))	4515219
04055	0	07400	2	05104		TSX	COMP + B	COMPILE CLA SYM2(S(1))	4515210
04056	0	02000	0	04044		TRA	CP2100	DECET CH	4515211
04057	0	60000	0	06164	CP2200	512	CW C	KESEI CW	4F15212
04060	-0	53400	2	03607		LXU	CPU400 • B		4F15214
04061	1	00003	2	04062		IXI	CP2230,8,3	ETAILCHED WITH CLTS	4F15215
04062	3	77772	2	04125	CP2230	IXH	CP2500+B+-6	FINISHED WITH S(I)	4515212
04063	-0	63400	2	03607		SXD	CP0400 • B		4F15217
04064	0	50000	1	06651		CLA	SCRIPL+1.A	EVANIUE ODGICATION	4515211
04065	0	76000	0	00001		LBI	603300	AND AND STORED	4F15210
04066	0	02000	0	04075		IKA	CP2300	AND AND THE MO	4E16220
04067	0	07400	4	01731	CP2250	ISX	CI 100 + C	COMPAN STO A TABLE NO. 1	4F15221
04070	0	00000	0	01406		HTR	L(0)	COMPILE SIG 4000 TYPE NO. + 1	4515222
04071	0	00000	0	01573		HTR	L(STQ)		4515222
04072	0	00000	0	06162		HTR	AKGOKG	COMPILE MPY SYMJ(S(I)) COMPILE MPY SYMJ(S(I)) GO MODIFY J FLO PT• COMPILE FMP SYMJ(S(I)) GO MODIFY J. OP1(S(I))=SPOP TEST OP1(S(I))12 LIB OR OPEN FUNCTION FN-FUNCTION PN-FUNCTION PUT TYPE NO IN ADD(ACC) FORM 4***TYPE NO* AND STO IN ARGORG FORM 7***TYPE NO* AND STO IN XRSAVE EXAMINE OP2(S(I))35 1ST ARG STORED 1ST ARG IN ACC COMPILE STO 4***TYPE NO* + 0 GO ON TO OP3(S(I)) ADDRESS COMPILE SYM2(S(I)) RESET CW FINISHED WITH S(I) EXAMINE OP3(S(I))35 2ND ARG STORED 2ND ARG STORED 2ND ARG IN MQ COMPILE STQ 4***TYPE NO* + 1	4F15224
04073	0	00000	0	01454		HIR	ZE18	CO ON TO CYMAICITIN	4F15224
04074	1	77775	1	04102		IXI	CP2350 + A + - 3	GU UN 10 STM4(S(1))	4515222
04075	-0	50000	0	01556	CP2300	CAL	L(LDQ)		4612556

04076 0 6	60200 0	06165			CW+1	ADDRESS COMPILE SYM3(S(I)) COMPILE LDQ SYM3(S(I)) INITIALIZE DEC(P(CNTR) TO 2 FINISHED WITH S(I) ADDRESS COMPILE SYMJ(S(I)), J=4, COMPILE CLA SYMJ(S(I)), J=4,	4F15227
	07400 4				AC0000 • C	ADDRESS COMPILE SYM3(S(1))	4F15228
	07400 2				COMP , B	COMPILE LDQ SYM3(S(1))	4F15229
	02000 0				CP2250		4F15230
			CP2350		DECM12	INITIALIZE DECIPIONIES TO 2	4F15231
04103 0	60200 0	06161			P (CNTR		4F15232
04104 -0			CP2370	LXD	CP0400 •B		4F15233
04105 1 (00003 2	04106	_		CP2390.B.3		4F15234
			CP2390		CP2500 +B +-6	FINISHED WITH S(1)	4F15235 4F15236
04107 -0					CP0400 • B		4F15237
04110 -0					L(CLA)	ADDRESS COMPILE SYMJ(S(I)), J=4, COMPILE CLA SYMJ(S(I)), J=4, COMPILE STO 4TYPE NO. + J-2, J=4,	4F15238
04111 0				SLW	CW+1	1000000 COURTE CUM 1551111 1-4	4F15220
04112 0 (TSX	AC0000 • C	ADDRESS COMPILE SYMJ(S(1)) J=49444	4F15239 4F15240
04113 0 (TSX	COMP • B	COMPILE CLA SYMJ(S(1)); J=4;	4515240
04114 0				TSX	CITOO+C	COMPILE STO 4000 TYPE NO. + J-29 J=49000	4F15241 4F15242
04115 0 (HTR	L(0)	•	4F15242
04116 0 (HTR	L(STO)		4F152643
04117 0 (HTR	ARGORG	•	4F15244
04120 0 (00000 0	06161		HTR	PICNTR		4F15245 4F15246
04121 0				CLA	P(CNTR	UPDATE PICNIR	4F15246 4F15247
04122 0 4				ADD	2E18	ADDRESS COMPILE SYMJ(S(I)), J=4, COMPILE CLA SYMJ(S(I)), J=4, COMPILE STO 4TYPE NO. + J-2, J=4, UPDATE P(CNTR FINISHED WITH S(I) COMPILE SXD 7TYPE NO. , 4 COMPILE TSX SYM1(S(I)),4	4F15248
04123 0				STO	PICNTR		4F15249
04124 1	77775 1	04104		TXI	CP2370.A3	ETHICUED WITH CITY	4F15250
			CP2500	LXD	3QBAR • A	FINISHED WITH S(I)	4F15251
04126 -0				CAL	L (SXD)		4F15252
04127 0				SLW	CM+1	•	4F15253
04130 -0 5				CAL	XKSAVE		4F15254
04131 0				SLW	CW+2	•	4F15255
04132 -0				CAL	L(4)		4F15256
04133 0				SLW	CWT3	COMPTLE CAD TO THE NO A	4F15257
04134 0 (CAL	COMP (B	COMPILE SAU 7000 17 4	4F15258
04135 -0				CAL	Chia		4F15259
04136 0				SLW	CORTEL 42.A		4F15260
04137 -0	50000 1	06652		CAL	SCRIPLT23A		4F15261
04140 0 0	60200 0	00100		JEN	COMP - P	COMPILE TOX SYM1(S(1)) 44	4F15262
04141 0 0	07400 2	05104		124	COMPAD	COMPLET 13X STRITTS (1779	4F15263
04142 -0	50000 0	01361		CAL	CMT1		4F15264
04143 0	60200 0	06165		SLW	VECAVE		4F15265
04144 -0	50000 0	06163		CAL	CM+3	• .	4F15266
04145 0 0	60200 0	06166		JLW TDA	CRECOO		4F15267
04146 0 0	02000 0	05241	CDE020	TVI	E50000		4F15268
04147 1 (00000 0	04622	(2000	1 / 1	2300004040		4F15269
01150 0	7/200 0	00024	CD2650	LGI	20	TEST 001(S(1))33	4F15270
04150 -0	16300 0	00024	CF2650	TOP	CB3060	One LIBA SERTN	4F15271
04151 0 3	10200 0	04211		CIS	CH 2000	1 AAA OPEN SBRIN	4F15272
04152 0 2	60100 O	06164		STO	CW	CW TO -CW	4F15273
04155 0 6	50100 0	06667		CLA	SCRIPL-1.A		4F15274
04154 0 2	50000 T	06166		STO	CW+2		4F15275
04155 0 0	07400 0	05104		TSX	COMP • B	COMPILE FUNCTION NAME	4F15276
04157 0 4	60000 0	06164		ST7	CW	RESET CW	4F15277
04127 0 6	52400 2	03607		IXD	CP0400 • B	TEST OP1(S(I))33 O LIB. SBRTN 1 OPEN SBRTN CW TO -CW COMPILE FUNCTION NAME RESET CW OPEN UNIVARIATE FUNCTION	4F15278
04160 70 3	77767 2	04202		TYI	CP2930+B+=9		4F15279
04161 -3 (11101 4 50000 0	01521		CAI	A1 1 1	OPEN UNIVARIATE FUNCTION	4F15280
U4102 -0 :	00000	11721			UP = 1	er en	

								•	4F15281
		60200				SLW	CW		4F15282
		50000					SCRIPL+1+A	EXAMINE OP2(S(1))35 0 ARG STORED 1 ARG NOT STORED	4F15283
		76000				LBT	400000	A. ADG STOPED	4F15284
		02000				IKA	CP2900	1 ADC NOT STORED	4F15285
04167	0	77100	0	00001		ARS	1	1444 ARG NOT STORED	4F15286
04170	0	56000	0	01512		LDQ	ADPLUS		4F15287
04171	0	76000	0	00001		LBT			4F15288
04172	0	02000	0	04174		TRA	CP2860		4F15289
04173	0	56000	0	01524		LDQ	ADSTAR		4F15290
04174	-0	60000	U	00100	CP2800	31W	CMT2		
04175	. 0	60000	0	06167		SIZ	CW+3	COMPANIE ACC OR NO INDICATOR	4F15292
04176	0	07400	2	05104	CP2880	TSX	COMP +B	COMPILE ACC OR MQ INDICATOR RESET CW	4F15293
04177	0	60000	0	06164		STZ	CW	RESEI CW	4F15294
04200	0	02000	0	04622		IRA	ES0000	ADDDESS CONDILE SYMPLETTIA	4F15295
04201	0	07400	4	05112	CP2900	ISX	AC0000,C	CO COMPILE SYMPTETITIES	4F15296
04202	0	02000	0	04176		IRA	CP2880	ODEN MULTIVADIATE FUNCTION	4F15296 4F15297
04203	0	07400	4	05112	CP2930	124	AC00003C	OPEN MOLITARIATE TORCTION	4F15298
84204	-0	53400	2	03607		LXD	CP0400+B		4F15299
04205	1	00003	2	04206		IXI	CP29609B93		4F15300
04206	3	77772	2	04212	CP2980	LXH	CP3000+B+=6		4F15301
04207	-0	63400	2	03607		SXD	CPU400 • B	COMPTIE SANITETIN	4F15302
04210	0	07400	2	05104		158	COMP +B	COMPILE SIMULS(II)	4F15303
04211	1	77775	1	04203		IXI	CP29309A9-3		4F15304
04212	-0	50000	0	01531	CP3000	CAL	ALLI		4F15305
04213	0	60200	0	06164		SLW	CM	COMPTLE LACT ADDIMENT NAME	4F15306
04214	0	97400	2	05104		15%	COMP 18	DECET CW	4F15307
04215	0	60000	0	06164		512	CW	CO TO END_OF_CEGMENT CRPTN	4F15308
04216	0	02000	0	04622	c00040	IKA	ES0000	GO TO END-OF-SEGMENT SENTA	4F15309
04217	-3	77767	2	04245	CP3060	CLAL	CCD1DL+1-A	CLOSED LINIVARIATE FUNCTION	4F15310
04220	0	50000	1	06651		CLA	SCRIPLTIA	EVANUE ODS (E(1) 25	4F15311
04221	0	76000	0	00001		LBI	CB2280	A.A. ARG STORED	4F15312
04222	0	02000	0	04240	602100	CLA	L / EVD3	1 APG IN ACC	4F15313
04223	0	50000	0	01575	CP3100	CLA	CW+1	1888 AND IN ACC	4F15314
04224	0	60100	0	06165		310	CWTI		4F15315
04225	0	50000	Õ	01505		CLA	CMT3		4F15316
04226	0	60100	ŏ	00100		510	LIAN		4F15317
04227	ŭ	50000	Ö	01412		STO	CMT3		4F15318
04230	Ö	60100	Ö	00101		TCY	COMPAR	COMPILE SXD7	4F15319
04231	0	5/400	~	03104		CLA	LITSXI		4F15320
04232	0	20000	ŏ	01002		SIO	CW+1		4F15321
04233	. 0	90100	٠	06467		CLA	SCRIPI -1.A		4F15322
04234	ŭ	20000	,	06144		STO	CW+2		4F15323
04235	ŭ	90100	9	06100		TSY	COMPAR	COMPILE TSX SYM1(S(1));4 COMPILE FLOW TRACE INFO AND LXD 7(;4	4F15324
04236	ŏ	07400	~	0/615		TPA	CP5780	COMPILE FLOW TRACE INFO AND LXD 71.4	4F15325
04237	0	02000	0	01541	CP3280	CLA	L (CLA)	COMPILE ACC OR MQ INDICATOR RESET CW ADDRESS COMPILE SYM2(S(I)) GO COMPILE SYM2(S(I)) OPEN MULTIVARIATE FUNCTION COMPILE LAST ARGUMENT NAME RESET CW GO TO END-OF-SEGMENT SBRTN CLOSED UNIVARIATE FUNCTION EXAMINE OP2(S(I))35 O.O. ARG STORED 1.O. ARG IN ACC COMPILE SXD7O.4 COMPILE TSX SYM1(S(I)).4 COMPILE FLOW TRACE INFO AND LXD 7(.4	4F15331
						STO	CW+1		4F15332
04241	Ü	60100	6	05112		TCY	AC0000 aC	ADDRESS COMPILE SYM2(S(1))	4F15333
04242	0	07400	4	05104		TCY	COMPAB	COMPILE CLA SYM2(S(1))	4F15334
04243	0	07400	4	05104		ST7	AC0000+C COMP+B CW CP3100		4F15335
04244	Ō	60000	0	00104		TPA	CP3100		4F15336
04245	0	02000	0	04223	CD3350	TYI	CP3560 +B +-12	The second secon	4F15337
04246	-3	50000	4	04661	CF 3330	CIA	SCRIPL+1+A	CLOSED BIVARIATE FUNCTION	4F15338
		50000				LBT	JUNE 1 2 7 1 7 1	EXAMINE OP2(S(I))35	4F15339
04250	U	76000	U	00001					

04251	0	02000 0	04260		TRA	CP3450 L(LDQ) CW+1	O ARG1 STORED 1 ARG1 IN ACC ADDRESS COMPILE SYM3(S(I)) COMPILE LDQ SYM3(S(I)) GO COMPILE SXD.TSX.LXD SEQUENCE EXAMINE OP3(S(I))35 O ARG2 STORED 1 ARG2 IN MQ ADDRESS COMPILE SYM2(S(I)) REST CW GO COMPILE LDQ.SXD.TSX.LXD SEQUENCE CLOSED MULTIVARIATE FUNCTION EXAMINE OP2(S(I))35 O ARG1 STORED 1 ARG1 IN ACC INITIALIZE P(CNTR TO -2 ADDRESS COMPILE SYMJ(S(I)) FOR J=4.5	4F15340
04252	ō	50000 0	01556	CP3390	CLA	L(LDQ)	1 ARG1 IN ACC	4F15341
04253	0	60100 0	06165		STO	CW+1		4F15342
94254	1	77775 1	04255		TXI	CP3420+A+-3		4F15343
04255	0	07400 4	05112	CP3420	TSX	CP3420,A,-3 AC0000,C COMP,B CP3100,A,3	ADDRESS COMPILE SYM3(S(I))	4F15344
04256	0	07400 2	05104		TSX	COMP .B	COMPILE LDQ SYM3(S(I))	4F15345
04257					TXI	CP3100,A,3	GO COMPILE SXD.TSX.LXD SEQUENCE	4F15346
04260	ō	50000 1	06654	CP3450	CLA	SCRIPL+4+A		4F15347
04261		76000 0			LBT		EXAMINE OP3(S(1))35	4F15348
04262		02000 0	04264		TRA	CP3490	O ARG2 STORED	4F15349
	0	02000 0	04240		TRA	CP3280	1 • • ARG2 IN MQ	4F15350
04264	0	50000 0	01541	CP3490	CLA	L(CLA)		4F15351
04265		60100 0			STO	CW+1		4F15352
		07400 4	05112		TSX	AC0000 • C	ADDRESS COMPILE SYM2(S(I))	4F15353
04267		07400 2			TSX	COMP .B	COMPILE CLA SYM2(S(I))	4F15354
		60000			STZ	CW	REST CW	4F15355
04271	0	02000 0	04252		TRA	CP3390	GO COMPILE LDQ.SXD.TSX.LXD SEQUENCE	4F15356
04272	ō	50000 1	06651	CP3560	CLA	SCRIPL+1,A	CLOSED MULTIVARIATE FUNCTION	4F15357
04273		76000 0			LBT		EXAMINE OP2(S(I))35	4F15358
04274		77772 1			TXI	CP3820+A+-6	O ARG1 STORED	4F15359
04275	1	77772 1	04276		TXI	CP3600+A+-6	1 ARG1 IN ACC	4F15360
04276	ō	50000 0	01521	CP3600	CLA	DECMI2	·	4F15361
					STO	P(CNTR	INITIALIZE PICNTR TO -2	4F15362
04300	0	50000 0	01556	CP3620	CLA	L(LDQ)		4F15363
04301	0	60100 0	06165		STO	CW+1		4F15364
04302	0	07400 4	05112		TSX	AC0000 • C	ADDRESS COMPILE SYMJ(S(I)) FOR J=4,5,	4F15365
04303	0	07400 2	05104		TSX	COMP • B	COMPILE LDQ SYMJ(S(I))	4F15366
04304	0	50000 0	01573		CLA	L(STQ)		4F15367
04305	0	60100 0	06165		STO	CW+1		4F15368
04306	0	50000 0	01503		CLA	P(4F15369
04307	0	60100 0	06166		STO	CW+2		4515370
04310	0	50000 0	06161		CLA	P (CNTR		4715371
04311	0	60100 0	06167		STO	CW+3	·	4F 15372
04312	0	40200 0	01454		SUB	2E18		4515373
04313	0	60100 0	06161		STO	PICNTR		45 15374
04314	0	07400 2	05104		TSX	COMP +B	COMPILE STQ 4O-(J-2)	4F 15375
04315	-0	53400 2	03607		FXD	CP0400 • B	•	4F15376
04316	1	00003 2	04317		TXI	CP3770+B+3		4715377
04317	-3	77764 2	04322	CP3770	TXL	CP3800+B+-12	TANK WEST AND	4515378
04320	-0	53400 1	01117		LXD	3QBAR • A	FINISHED WITH ARG VECTOR	4F15379
04321	1	77775 1	04252		IXI	CP3390 • A • - 3		4F15380
04322	-0	63400 2	03607	CP3800	SXD	CP0400+B		4F15381
04323	- 1	77775 1	04300		TXI	CP3620 • A • - 3	GO PICK UP NEXT ARG.	4F15382
04324	. 0	50000 1	06646	CP3820	CLA	SCRIPL-2+A		4F15383
04325	0	76000 0	00001		LBT		EXAMINE OP3(S(1))35	4715384
04326	1	00006 1	04355		IXI	CP4070,A,6	O. ARGZ STORED	45 15 20 2
04327	0	50000 0	01521		CLA	DECM12	1000 AKGZ IN MU	4515000
04330	0	60100 0	06161		STO	PICNTR		4515000
04331	0	50000 0	01541	CP3870	CLA	L(CLA)		4612388
84332	0	60100 0	06165		\$10	CW+1	ADDDESS CONDITE CANALISATES FOR 1-4 C	4616333
04333	0	07400 4	05112	,	TSX	AC0000,C	ADDRESS COMPILE SYMJ(S(1)) FOR J=4,5,	4015390
04334	0	07400 2	05104	1	TSX	COMP B	COMPILE CLA SYMJ(S(1))	47 12391
04335	. 0	50000 0	01572		CLA	L(STO)		4015392
04336	0.	60100 0	06165		STO	CW+1	ADDRESS COMPILE SYMJ(S(I)) FOR J=4,5, COMPILE LDQ SYMJ(S(I)) COMPILE STQ 4O-(J-2) FINISHED WITH ARG VECTOR GO PICK UP NEXT ARG. EXAMINE OP3(S(I))35 0 ARG2 STORED 1 ARG2 IN MQ ADDRESS COMPILE SYMJ(S(I)) FOR J=4,5, COMPILE CLA SYMJ(S(I))	4112393

04337 0 50000 0 01503 CLA P(COMPILE STO 4O-(J-2) FINISHED WITH ARG VECTOR GO PICK UP NEXT ARG ADDRESS COMPILE SYM2(S(I)) COMPILE CLASYM2(S(I)) RESET CW OP1(S(I))=** CLOSED SBRTN SINCE OP1(S(I))33=0 OPEN SBRTN SINCE OP1(S(I))33=1 BASE FIX PT SINCE OP1(S(I))32=0 BASE FLO PT SINCE OP1(S(II))32=1	F15394
04340 0 60100 0 06166 STO CW+2		F15395
04341 0 50000 0 06161 CLA PICNTR		F15396
04342 0 60100 0 06167 STO CW+3		F15397
04343 0 40200 0 01454 SUB 2E18		F15398
04344 0 60100 0 06161 STO P(CNTR		F15399
04345 0 07400 2 05104 TSX COMP B	COMPILE STO 4.4.0-(J-2)	F15400
04346 -0 53400 2 03607 LXD CP0400+B	taran da antara da a	F15401
04347 1 00003 2 04350 TXI CP4020+B+3	and the second of the second o	F15402
04350 -3 77764 2 04353 CP4020 TXL CP4050 B -1	2	F15403
04351 -0 53400 1 01117 LXD 3QBAR+A	FINISHED WITH ARG VECTOR 4	F15404
04352 1 77775 1 04240 TXI CP3280+A+-3	r de la companya de	F15405
04353 -0 63400 2 03607 CP4050 SXD CP0400 B		F15406
64354 1 77775 1 04331 TXI CP3870+A+-3	GO PICK UP NEXT ARG	F15407
04355 0 50000 0 01541 CP4070 CLA L(CLA)	•	F15408
A4254 A 40100 A 04145 STO CW+1		F15409
04357 0 07400 4 05112 TSX AC0000+C	ADDRESS COMPILE SYM2(S(I)) 4	F15410
04360 0 07400 2 05104 TSX COMP B	COMPILE CLASYM2(S(I))	F15411
04361 0 60000 0 06164 STZ CW	RESET CW	F15412
04362 1 77772 1 04276 TXI CP3600 A - 6		F15413
04363 -0 76300 0 00033 CP4140 LGL 27	OP1(S(I))=**	F15414
04364 0 16200 0 04415 TQP CP4410	CLOSED SBRTN SINCE OP1(S(1))33=0 4	F15415
84365 0 76000 0 00001 LBT	OPEN SBRTN SINCE OP1(S(1))33=1 4	F15416
04366 0 02000 0 04371 TRA CP4200	BASE FIX PT SINCE OP1(S(I))32=0 4	F15417
04367 0 50000 0 01525 CLA STRSTR	BASE FLO PT SINCE OP1(S(II))32=1 4	F15418
7070 0 02000 0 06272 TPA CP4210	•	F15419
04371 0 50000 0 01524 CP4200 CLA ADSTAR	•	F15420
04372 0 60100 0 06165 CP4210 STO CW+1	4	F15421
04373 -0 76300 0 00002 LGL 2	EXAMINE OP1(S(I))35	F15422
04374. 0 16200 0 04403 TOP CP4310	O BASE STORED 4	F15423
04375 0 56000 0 01524 LDQ ADSTAR	1 BASE NOT STORED 4	F15424
04376 0 76000 0 00001 LBT	EXAMINE OP1(S(I))34	F15425
04377 0 56000 0 01512 LDQ ADPLUS	O BASE IN ACC	F15426
04400 -0 60000 0 06166 STQ CW+2	1BASE IN MQ	F15427
04401 0 60000 0 06167 STZ CW+3		F15428
04402 0 02000 0 04404 TRA CP4320	4	F15429
04403 0 07400 4 05112 CP4310 TSX AC0000+C	ADDRESS COMPILE SYM1(S(1))	F15430
04404 0 50200 0 06164 CP4320 CLS CW	4	F15431
04405 0 60100 0 06164 STO CW	CW TO -CW	F15432
04406 0 07400 2 05104 TSX COMP .B	EXAMINE OP1(S(I))35 0 BASE STORED 1 BASE NOT STORED EXAMINE OP1(S(I))34 0 BASE IN ACC 1BASE IN MQ ADDRESS COMPILE SYM1(S(I)) CW TO -CW COMPILE BASE RESET CW COMPILE FIX PT CONSTANT EXPONENT	F15433
04407 0 60000 0 06164 STZ CW	RESET CW	F 15434
04410 0 50000 1 06655 CLA SCRIPL+5.A	4	F15433
04411 0 60100 0 06166 STO CW+2	TO NOTICE THE DE CONCERNE EVENMENT	F15437
04412 0 01400 2 03104	COMPILE FIX PI CONSTANT EXPONENT	F15438
04413 0 60000 0 06165 STZ CW+1	KESEI CW+1	
04414 0 02000 0 04622 TRA ES0000	CLOCED EVD CDDTN	F15439 F15440
04415 -0 76300 0 00003 CP4410 LGL 3	CLUSEU EXPO SOKIN	F15440
04416 0 76000 0 00001 LBT	EXAMINE UPIGG(1/13)	F15442
04417 0 02000 0 04462 TRA CP4860	UAGE TH ACC	F15442
04420. 0 50000 0 01556 CP4440 CLA L(LUQ)	1000 DADE IN ALGO	F15444
04421 0 60100 0 06165 STO CW+1	91 Al	F15445
04422 1 77775 1 04423 TXI CP4470+A+-3	ADDDECC COMPTLE EVM2151111	F15446
04423 0 07400 4 05112 CP4470 TSX AC0000+C	AUDKESS COMPILE SIMZISIIII	F15447
04424 0 07400 2 05104 TSX COMP B	COMPILE FIX PT CONSTANT EXPONENT RESET CW+1 CLOSED EXP. SBRTN EXAMINE OP1(S(I))35 0 BASE STORED 1 BASE IN ACC. ADDRESS COMPILE SYM2(S(I)) COMPILE LDQ SYM2 (S(I))	

04425	0	50000	01579	CP4490	ÇLA	L(SXD)	COMPILE SXD 7 *** 0 * 4	4F15448
04426	ŏ	60100	06165	•	STO	CW+1	•	4F15449
04427	0	50000	01509	•	CLA	Xt		4F15450
04430		60100				CW+2		4F15451 4F15452
04431	0	50000	0 01412	2		L(4)		4F15453
04432	0	60100	0616	?		CW+3	COMPANY CAN 7 A.A	4F15454
04433	0	07400	2 05104			COMP + B	COMPILE SXD 7+4+0+4	4F15455
04434	0	50000	0 0160			L(TSX)		4F15456
04435	0	60100	0 0616	•		CW+1		4F15457
04436	0	50000	1 0665			SCRIPL+1•A	EXAMINE OP2(S(I))32 0 1 FLO**FLO EXAMINE OP1(S(I))32 TO CHECK FOR MIXED EXPONENTIAL EXPRESSION ERROR FIX PT BASE, FLOAT EXP.	4F15458
		77100			ARS	3	EVANINE ODS/C/11122	4F15459
		76000			LBT	604460-4-3	O	4F15460
04441		00003				CP4660 .A . 3	1: FI 0**FI 0	4F15461
		50000				FLFL .	EVANINE ODIICIIII32 TO CHECK	4F15462
04443	0	56000	1 06646	•		SCRIPL-2•A	EARTINE OF TISTIFFS TO CHECK	4F15463
		77300			RQL	MC0310+2	FDDOD FIX DT RASE, FLOAT FXP.	4F15464
		16200				CP4730	ERROR TIX TE BRODY TEST TAR	
04446	0	02000	0 04454	F CD4440		CCDIDI +1 · A	EXAMINE OP1(S(I))32 0FX**FX 1FL**FX	4F15466
04447	0	56000	1 0000	(CP4000)	EDW	SCRIPL+1+A	EXAMINE OPI(S(I))32	4F15467
	-0	77300	0 00040	•		FXFX	EXAMINE OF THOUTH IS	4F15468
04451		50000			TOP	CP4730	O.a.FX**FX	4F15469
04452	0	16200	0 04454	}	CLA	FLFX	1aaa FL##FX	4F15470
04453	Û	50000	0 0131	, - CD4730				4F15471
	Ü	60100	0 00100	CP4730	STO	G		4F15472
04455		60100 07400	2 0510			COMP .B	COMPILE TSX FXFX/FLEX/FLFL+4	4F15473
04456	v	07400	1 0222	•		TET00.A		4F15474
04457	0	07400 00000	0 0001	•	HTR	Q		4F15475
04460		02000				CP5780	COMPILE FLOW TRACE INFO AND LXD 71.4	4F15476
04461	ñ	50000	0 0154	CP4860		L(CLA)	•	4F15482
04462	. 0	60100	0 0616		STO	CW+1		4F15483
		07400			TSX	AC0000 • C	ADDRESS COMPILE SYM1(S(I))	4F15484
04464	0	07400	2 05104		TSX	AC0000+C COMP+B	COMPILE CLA SYM1(S(I))	4F15485
		60000			STZ	CW		4F15486
04466	ັດ	50000	1 06654			SCRIPL+4.A		4F15487
04401	n	76000	0 0000		LBT		EXAMINE OP2(S(I))35	4F15488
04471	. ,	00000	0 04420	,		CP4440 +0 +0	OEXP STORED	4F15489
04472		77775			TXI	CP4490 .A 3	1 EXP IN MQ	4F15490
04472	•		• • • • •					4F15491
04473	0	50000	0 00036	CP5000	CLA	EIFNO	FN FUNCTION	4F15492
04474	0	40000	0 01454	•	ADD	2E18	ADDRESS COMPILE SYM1(S(I)) COMPILE CLA SYM1(S(I)) EXAMINE OP2(S(I))35 OEXP STORED 1 EXP IN MQ FN FUNCTION UPDATE EIFNO AND SET FN SWITCH	4F15493
		60100				EIFNO	AND	4F15494
04476		60100			STO	FNSW	SET FN SWITCH	4F15495
04477	ō	62200	0 0110	,	STD	10	KEEP 1C UPDATED FOR PENDING TIFGO ENTRY.	
04500	0	53400	4 0140	7	LXA	L(1),C	INITIALIZE STAIX TO 1	4F15497
04501	Ö	50000	1 06650	CP5050	CLA	SCRIPL .A	EXAMINE TAGJ(S(1)), J=2,	4F15498
04502	-0	12000	0 0451	5	TMI	CP5180	NONSUBSCRIPTED	4F15499
04503	-0	63400	2 0414	7	SXD	CP5830 • B	SUBSCRIPTED-IS THERE A GENERAL TAG	4F15500
04504	-0	63400	4 0457	7	SXD	STACTR.C		4F15501
04505	0	07400	4 0511	?	TSX	AC0000 • C		4F15502
04506	-0	50000	0 0617	3	CAL	TAGPRT		4F15503
04507	-0	10000	0 0452	2		CP5220	GENERAL TAG PRESENT	4F15504
04510	-0	50000	0 0616	?		CW+3	NO GENERAL TAG PRESENT \$50 PLACE	4712202
04511	0	77100	0 00013	3	ARS	11	RELATIVE ADDRESS IN OPJ(S(1))14-28 AND	4F15506

04512	-0	50100	0	01474		ORA	NGTBIT	SET OPJ(S(I))10=1 FROM NGTBIT	4F15507
04513							SCRIPL+1.A		4F15508
04514	-0	53400	4	04577	CP5160	LXD	STACTR+C		4F15509
04515						LXD	CP5830 .B		4F15510
04516	1	00003	2	04517	CP5180		CP5190+B+3		4F15511
04517	2	77772	2	04552	CP5190	TYH	CP5460+B+-6	FINISHED WITH PRELUDE, IF ANY	4F15512
		00001			C. 3130		CP5210+C+1	NOT FINISHED-STAIX=STAIX+1	4F15513
04520	Ť	77775	7	04521	CD5210		CP5050+A+-3	GO ON TO NEXT ARGUMENT	4F15514
04521	-2	50000	7	04501	CP5220	CAL	L (PXD)	The state of the s	4F15515
					Cr 3220	CLE	CW+1		4F15516
04523		60200					COMP .B	COMPILE PXD SYMJ(S(I)), TAGJ(S(I))	4F15517
04524	-	07400				STZ		RESET CW	4F15518
04525	-	60000	-				CIT00+C	COMPILE ARS 18	4F15519
04526		07400					L(0)	CONFILE AND IO	4F15520
04527	-	00000							4F15521
04530		00000					L(ARS)		4F15522
04531		00000					L(0)		4F15523
04532		00000					DEC18	COMPILE ADD #-2	4F15524
04533		07400					CITOO+C	COMPILE ADD *-2	4F15525
04534						• • • •	L(0)		
04535		00000					L(ADD)		4F15526 4F15527
		00000					PROCTR		
04537	0	00000	0	01521			DECM12		4F15528
04540							L(STA)		4F15529
04541	0	60200	0	06165			CW+1	COMPILE STA IFN+STAIX GO ON TO NEXT ARGUMENT, IF ANY	4F15530
04542							EIFNO		4F15531
04543	-0	32000	0	01527			MASK1		4F15532
04544						SLW	CW+2		4F15533
04545	-0	53400	4	04577		LXD	STACTR • C		4F15534
04546	-0	75400	4	00000		PXD	0+C		4F15535
04547	0	60200	0	06167		SLW	CW+3	•	4F15536
04550						TSX	COMP .B	COMPILE STA IFN+STAIX	4F15537
04551	1	00000	0	04514			CP5160,0,0	GO ON TO NEXT ARGUMENT, IF ANY	4F15538
04552	-0	53400	1	01117	CP5460	LXD	3QBAR+A		4F15539
04553						CAL	L(SXD)		4F15540
04554	0	60200	0	06165		SLW	CW+1		4F15541
04555	-0	50000	0	01505		CAL	X (4F15542
		60200				SLW	CW+2		4F15543
04557						CAL	L(4)	•	4F15544
04560						SLW	CW+3		4F15545
04561	Õ	07400	2	05104		TSX	COMP +B	COMPILE SXD 7.4	4F15546
04562	-0	50000	0	00030		CAL	EIFNO		4F15547
04563					,	ANA	MASK1		4F15548
04564					,	SLW	CW		4F15549
04565	-0	50000	ñ	01602		CAL	L(TSX)		4F15550
04566		60200					CW+1		4F15551
04567							SCRIPL+2+A		4F15552
04570	0	60200	ñ	06166			CW+2		4F15553
04570		07400				_	COMP .B	COMPILE TSX SYM1(S(I))+4	4F15554
04572		60000				STZ	CW	RESET CW	4F15555
•		77775					CP5680+A+-3	POSITION XA TO SYM2(S(1))	4F15556
04573	•	50000	1	06650	CP5680		SCRIPL .A	COMPILE TSX SYM1(S(I)),4 RESET CW POSITION XA TO SYM2(S(I)) NONSUBSCRIPTED	4F15557
04574					C1 2000	TPI	CP5700		4F15558
04575		12000					AC0000 • C	NONSUBSCRIPTED	4F15559
04576	0	07400	4	05112	CTACTO		CD5720+0-0	TOTAL TEN	4F15560
04577	1	00000	U	0460/	STACIR	IVI	CP5720+0+0		

04600 0	56000 1	06651	CP5700	LDQ	SCRIPL+1.A	SUBSCRIPTED GENERAL TAG PRESENT NO GENERAL TAG PRESENT COMPILE TSX SYMJ(S(1)) , J=2,	4F15561
04601 -0	76300 0	00013		LGL	11		4F15562 4F15563
04602 0	76000 0	00001		LBT		CENTER A TAC DESCENT	4F15564
04603 0				LDQ	L(0) CW+3	MO CENERAL TAG PRESENT	4F15565
04604 -0				510	CW+3	NO GENERAL TAG PRESENT	4F15566
04605 -0				CAL	SCRIPL+2.A	COMPILE TSX SYMJ(S(1)) , J=2,	4F15567
04606 0	60200 0	06166		SLW	CW+2	COMPTLE TOY SYM ((S/T1) A 1-24-44	4F15568
04607 0	07400 2	05104	CP5720	TSX	COMP •B	COMPILE ISX STMUTS(III) J-29***	4F15569
04610 -0					CP04009B		4F15570
04611 1	00003 2	04612			CP5750+B+3	ETHICUED CCANNING	4F15571
04612 3	77772 2	04615	CP5750	TXH		FINISHED SCANNING	4F15572
04613 -0	63400 2	03607			CP0400 • B		4F15573
04614 1	77775 1	04574		TXI	CP5680+A+-3	COMPANY E FLOW TRACE INFO AND LYD 71.4	4F15574
			CP5780	ISX	FLIROU 94	COMPILE FLOW TRACE INFO AND LXD 7194	4F15575
04616 0				HIR	L(0)		4F15576
04617 0				HTR	r (rxa)		4F15577
04620 0	00000 0	01505		HIR	X		4F15578
04621 0	00000 0	01412		HIK	L(4)	-20 TO YA	4F15579
04622 -0	53400 1	01117	ES0000	LXD	L(4) 3QBAR+A	-34 10 AA	4F15580
				3L1	£ 500120	CO TO NEVT SEGMENT	4F15581
04624 0				IKA	CPUI30	GO TO NEXT SEGMENT	4F15582
04625 -0	50000 1	06650		CAL	SCRIPL DA		4F15583
04626 -0	32000 0	01452		ANA	MASK2		4F15584
04627 0	10000 0	04642		125	ES0160	SITE MOT - SIDE	4F15585
04630 0	50000 0	01120		CLA	ARERAS	3(1) NO: - 3(0)	4F15586
04631 0				310	CW+2 PHI(I)	-3Q TO XA GO TO NEXT SEGMENT S(I) NOT = S(O) COMPILE STO/STQ 1 TYPE NO + PHI(I) GO TO NEXT SEGMENT	4F15587
04632 0				CLA	PHI(1) CW+3 L(STQ)		4F15588
	60100 0			310	L (STO)		4F15589
04634 0				SLT	2		4F15590
04635 -0				CLA	1/5701		4F15591
04636 0				STO	CW+1		4F15592
04637 0	60100 0	00100		TCY	COMPAR	COMPILE STO/STQ 1 TYPE NO + PHI(I)	4F15593
04640 0	07400 2	02554		TDA	CP0130	COMPILE STO/STQ 1 TYPE NO + PHI(I) GO TO NEXT SEGMENT S(I)=S(O) IS THIS AN IF STATEMENT IS THIS A CALL STATEMENT	4F15594
04641 0 04642 0	02000 0	03334	ES0160	100	LEET+2	S(1)=S(0)	4F15595
04642 0	36000 0	00014	230100	LGL	10		4F15596
04643 -0	16300 0	00014			IFSYM	IS THIS AN IF STATEMENT	4F15597
04644 0				TDA	ES0200		4F15598
04645 0					ES1500		4F15599
04646 0 04647 0	34000 0	01451	ES0200		CALLER	IS THIS A CALL STATEMENT	4F15600
04650 0	02000 0	01431	C30200	TRA	E50210		4F15601
	02000 0				E51520		4F15602
04652 0	34000 0	01447	FS0210		SAPSYM		4F15603
04653 0				TRA	ES0220		4F15604
	02000 0				E51710		4F15605
04655 0	77100 0	00006	FS0220		6		4F15606
04656 -0	53400 4	01122		LXD	ARGCTR • C	IS THIS A FUNCTION STATEMENT YES NOT A FUNCTION STATEMENT	4F15607
04657 3					ES1300 • C • 0	YES	4F15608
04660 0					L(H)	NOT A FUNCTION STATEMENT	4F15609
04661 0	34000 0	01425		-	L(0)		4F15610
	02000 0				ES0300		4F15611
04663 0					ES0300		4F15612
04664 -0				SLT	4		4F15613
	02000 0			TRA	E\$0870		4F15614

								THE STATE OF AN ASSET STATE OF ON DIGHT	4F15615
04666	0	50000	0	01573	ES0710			FX(FLO) PT ON LEFT. FX(FLO) PT ON RIGHT	4F15616
04667		76000				SLT			
04670	0	50000	0	01572	ES0730				4F15617
04671	0	60100	0	06165			CW+1		4F15618
04672	0	50000	0	01354		CLA	LEFT		4F15619
04673	0	60100	0	06170		STO	TAGWRD		4F15620
04674	0	50000	٥	01355		CLA	LEFT+1	•	4F15621
04675		60100				STO	OPWORD		4F15622
04676		50000				CLA	LEFT+2		4F15623
04677		60100					CYMWRD		4F15624
04700	_	07400				_	AC0060+C	ADDRESS COMPILE VARIABLE ON LEFT	4F15625
04701		07400					COMP + B	COMPILE STO/STQ LEFT+2	4F15626
		02000					ES1590	COMPILE STO/STQ LEFT+2 EXIT TO FETCH STATE A FX PT ON LEFT+ FLO PT ON RIGHT	4F15627
04702					ES0870			FY PT ON LEFT. FLO PT ON RIGHT	4F15628
					E30070		ES0990		4F15629
04704		02000						RESULT ON RIGHT APPEARS IN MQ	4F15630
04705		50000					L(STQ)	RESULT ON KICKLY AFFERNO IN THE	4F15631
04706		60100					CW+1		4F15632
04707		50000				CLA			4F15633
04710		60100					CW+2	,	4F15634
04711	0	60000	0	06167			CW+3	COMPILE STQ 700000	
04712	0	07400	2	05104				COMPILE STQ 700000	4F15635
04713	0	50000	0	01541		CLA	L(CLA)		4F15636
04714	0	60100	0	06165		STO	CW+1	COMPILE CLA 700000 COMPILE FIXING INSTRUCTIONS, WHEN	4515637
04715	0	07400	2	05104			COMP .B	COMPILE CLA 700000	4F15638
04716	٥	07400	4	01731	ES0990	TSX	CITOO+C	COMPILE FIXING INSTRUCTIONS, WHEN	4F15639
		00000					L(0)	RESULT ON RIGHT IS IN ACC.	4F15640
04720		00000					L(UFA)		4F15641
04721		00000				HTR			4F15642
04722	-	00000					L(0)		4F15643
04723		07400				TSX	CITOO+C		4F15644
	_	00000					L(0)		4F15645
04724		00000					L(LRS)		4F15646
04725							L(0)		4F15647
04726		00000					L(0)		4F15648
04727		00000					CITOO+C		4F15649
04730	-	07400					1.40	•	4F15650
04731	_	00000					L (V)		4F15651
04732		00000					L(ANA)		4F15652
04733		00000				HTR	01		4F15653
04734		00000					2E18		4F15654
04735		07400					CITOO+C		4F15655
04736	-	00000					L(0)		4F15656
04737	-	00000					L(LLS)		
04740		00000					L(0)		4F15657
04741	0	00000	0	01406			L(0)		4F15658
04742	0	07400	4	01731		TSX	CITOO+C		4F15659
04743	0	00000	0	01406		HTR	L(0)	·	4F15660
04744	0	00000	0	01533		HTR	L(ALS)		4F15661
04745		00000				HTR	L(0)		4F15662
04746		00000				HTR	DEC18		4F15663
04747	_	02000					E50610		4F15664
04750	-0	76000	ō	00144	ES0300		4 ·		4F15665
04751		02000					ES0710	SLO DT ON LEET, EV PT ON RIGHT	4F15666
04771	-0	74000	Š	00142	ES0320		2	FLO PT ON LEFT. FX PT ON RIGHT	4F15667
		02000			200320		ES0440		4F15668
04753	U	02000	J	V+102		1117			,
								•	

04754	0	50000	O	01573		CLA	L(STQ)	RESULT ON RIGHT APPEARS IN MQ	4F15669 4F15670
04755		60100				STO	CW+1		4F15671
04756		50000				CLA	xt		4F15672
04757	0	60100	0	06166			CW+2		4F15673
04760	0	60000	0	06167			CW+3		4F15674
04761	Ó	07400	2	05104			COMP .B	COMPILE STQ 700000	4F15675
04762	0	50000	0	01541		CLA	L(CLA)		4F15676
04763	Ō	60100	0	06165	•	STO	CW+1	COMPILE STQ 700000 COMPILE CLA 700000 COMPILE FLOATING INSTRUCTIONS, WHEN	4F15677
04764	0	07400	2	05104			COMP • B	COMPILE CLA 700000	4F15678
04765	0	07400	4	01731	ES0440	TSX	CIT00,C	COMPILE FLOATING INSTRUCTIONS, WHEN	4F15679
04766		00000					L(0)	RESULT ON RIGHT IS IN ACC	4F15680
04767	0	00000	0	01560		HTR	L(LRS)		4F15681
04770		00000				HTR	L(0)		4F15682
04771		00000				HTR	DEC18		4F15683
04772	0	07400	4	01731		TSX	CIT00+C		4F15684
04773		00000				HTR	L(0)		
04774	_	00000				HTR	L(ORA)		4F15685
04775		00000				HTR	0(4F15686
04776	_	00000	_			HTR	L(0)		4F15687
04777	_	07400				TSX	CITOO+C	•	4F15688
05000	_	00000					L(0)		4F15689
05001	-	00000				HTR	L(FAD)		4F15690
05002	_	00000	-			HTR	01		4F15691
05003	Ω	00000	0	01406		HTR	L(0)	IS THIS A FUNCTION STATEMENT NO YES	4F15692
05004	-0	53400	4	01122	ES0610	LXD	ARGCTR .C	IS THIS A FUNCTION STATEMENT	4F15693
05005	-3	00000	4	04670		TXL	ES0730+C+0	NO	4F15694 4F15695
05006	O	50000	0	01601	ES0630	CLA	L(TRA)	YES	
05007		60100				STO	CW+1	COMPILE TRA 1.4 EXIT TO FETCH STATE A	4F15696
05010		60000			•	STZ	CW+2		4F15697 4F15698
		50000				CAL	2E18		4F15699
		50100				ORA	L(4)		
		60200				SLW	CW+3		4F15700
05014		07400				TSX	COMP • B ES1590	COMPILE TRA 1+4	4F15701 4F15702
05015	0	02000	0	05064			ES1590	EXIT TO FETCH STATE A	4F15702
05016	. 0	40200	٥	01433	ES1300	SUB	L(X)		
05017		10000				TZE	ES1360		4F15704
		76000				SLT	4		4F15705 4F15706
05021		02000				TRA	ES1380		
05022	0	02000	0	04752		TRA	ES0320		4F15707
05023	-0	76000	0	00144	ES1360	SLT	4		4F15708
05024		02000				TRA	ES0870		4F15709
05025	-0	76000	Õ	00142	ES1380	SLT	2	•	4F15710
05026		02000				TRA	ES0630		4F15711
05027	_	50000				CLA	L(STQ)		4F15712
05030	_	60100	_			STO	CW+1		4F15713
05031	-	50000	_			CLA	X (4F15714
05032		60100				STO	CW+2		4F15715
05032	-	60000	_				CW+3 -		4F15716
05034		07400				-	COMP .B	COMPILE STQ 700000	4F15717
05035		50000					L(CLA)		4F15718
05036		60100					CW+1		4F15719
05037		07400					COMP .B	COMPILE STQ 700000 COMPILE CLA 700000	4F15720
05040	_	02000					ES0630		4F15721
05041	ŏ	07400	í	03321	ES1500		TET00+1	* GO TO PROGRAM TET TO ENTER 1C+1C+1	4715722
47071	-	3	_						

05042	0	00000	0	00002		PZE	2		INTO TI	FGO TAB	LE (TABLE	2}*		4F15723
05043	0.	02000	0	05050		TRA	ES1530							4F15724
05044	-0	53400	4	00030	E\$1520	LXD	EIFNO,4							4F15725
05045	-0	63400	4	01123		SXD	CALLNM 4				E OF CALL	FIRST	AND	4F15726
05046	0	07400	1	03321		TSX	TET00•1	LAST IF	N NUMBER	854				4F15727
05047	0	00000	0	00020			16							4F15728
05050	-0	76000	0	00142	ES1530	SLT	2							4F15729
05051		02000				TRA	ES1590	EXIT TO	FETCH S	STATE A				4F15730
05052	0	07400	4	01731		TSX	CIT00.C	COMPILE	LLS 37					4F15731
05053		00000					L(0)							4F15732
05054	0	00000	0	01573			L(STQ)							4F15733
05055		00000					x(4F15734
05056	0	00000	0	01406			L(0)							4F15735
05057	0	07400	4	01731		TSX	CIT00•4							4F15736
05060		00000					L(0)							4F15737
05061	0	00000	0	01541			L(CLA)							4F15738
05062	0	00000	0	01505			X (4F15739
05063	0	00000	0	01406			L(0)							4F15740
05064	0	50000	0	06160	ES1590	CLA	FNSW							4F15741
05065		10000				TZE	MTR000							4F15742
05066	0	50000	0	01151		CLA	F-1							4F15743
05067	0	40200	0	01477		SUB	5BLANS							4F15744
05070		10000				TZE	MTR000							4F15745
05071	0	50200	0	00030		CLS	EIFNO							4F15746
05072		60100					EIFNO					-		4F15747
05073		07400				TSX	TETOO+A							4F15748
05074		00000				HTR	0							4F15749
05075		50200				CLS	EIFNO							4F15750
05076	-	60100				STO	EIFNO							4F15751
05077	0	02000	0	02402		TRA	MTR000							4F15752
05100	-0	53400	2	00637	ES1710	LXD	BBOX •B							4F15753
05101		50000				CLA	OPNWRD							4F15754
05102		60100				STO	CIB-3.B							4F15755
05103		02000				TRA	MTR000							4F15756
	-												-	4F15757
05104	0	07400	4	01731	COMP	TSX	CITOO,C							4F15758
05105	ŏ	00000	0	06164		HTR	CW							4F15759
05106	ŏ	00000	Ō	06165		HTR	CW+1							4F15760
05107	ŏ	00000	0	06166		HTR	CW+2							4F15761
05110	ō	00000	0	06167		HTR	CW+3							4F15762
05111	Õ	02000	2	00001		TRA	1•B							4F15763
	-													4610/64
05112	0	50000	1	06650	AC0000	CLA	SCRIPL + A		•					4F15765
05113	ŏ	60100	ō	06170		STO	TAGWRD							4F15766
05114	ō	50000	1	06651		CLA	SCRIPL+1,A	•						4F15767
05115	ŏ	60100	Ō	06171		STO	OPWORD							4F15768
05116	ō	50000	ì	06652		CLA	CW CW+1 CW+2 CW+3 1,B SCRIPL,A TAGWRD SCRIPL+1,A OPWORD SCRIPL+2,A SYMWRD							4F15769
05117	Õ	60100	ō	06172		STO	SYMWRD							4F15770
05120	-0	50000	Õ	06170	AC0060	CAL	TAGWRD							4F15771
05121	-0	32000	Õ	01527		ANA	MASK1	EXTRACT	TAGS IN	ACC.				4F15772
05122	-0	76000	Õ	00001		PBT								4F15773
05123	Õ	02000	ō	05204			AC0540							4F15774
		75400					0,0	NON-SUBS	CRIPTED	SYMBOL				4F15775
05125	Ô	56000	Õ	06172			SYMWRD							4F15776
OFFED	-	2000	•											

	05126 -0	7630	0 0	00001		LGL	1	SYMBOL IS SOME S(K) NON-SUBSCRIPTED EX/INTERNAL VARIABLE IS THIS A FLO PT CONSTANT YES NO IS THIS A FIX PT CONSTANT YES NO IS THIS A HOLLERITH FIELD YES NON-SUBSCRIPTED EXTERNAL VARIABLE IS THIS A FREE VARIABLE NO YES STORE ARGUMENT BUFFER RELATIVE ADDRESS EXTRACT FUNCTION STATEMENT TYPE RETURN NON-SUBSCRIPTED. REAL VARIABLE FIX PT INTERNAL VARIABLE FLO PT INTERNAL VARIABLE RETURN SYMBOL IS SOME S(K) EXTRACT PHI(K) SUBSCRIPTED VARIABLE CLEAR AC. I-TAU TAGS TO AC. STORE FOR NEXT CIT ENTRY.	4F15777
	05127 0	7600	0 0	00001		LBT		· · · · · · · · · · · · · · · · · · ·	4515778
	05130 0	1620	0 0	05175		TQP	AC0460	SYMBOL IS SOME S(K)	4515700
	05131 -0	7630	0 0	00013		LGL	11	NON-SUBSCRIPTED EXTINIERNAL VARIABLE	4515701
	05132 0	4020	0 0	01444		SUB	L(A()	IS THIS A FLO PI CONSTANT	4612101
	05133 0	1000	0 0	05170		TZE	AC0410	YES	4515702
	05134 0	4000	0 0	01444		ADD	L(A()	NO	4F15784
	05135 0	4020	0 0	01446		SUB	L(I()	IS THIS A PIX PI CONSTANT	AF15785
	05136	1000	0 0	05166		TZE	AC0390	YES	AF15786
	05137 0	4000	0 0	01446		ADD	L(1()	NU	4F15787
	05140	4020	0 0	01445		SUB	L(H()	15 IMIS A HOLLERI IN FILLS	4F15788
	05141 0	1000	0 0	05164		TZE	AC0350	NON-CURCOLDED EVIEDNAL VADIARIE	4F15789
	05142	5600	0 0	06171		LDQ	OPWORD	IC THIS A EDEE VADIABLE	4F15790
	05143 -0	7630	0 0	00015		TOD	15	NO	4F15791
	05144	1620	0 0	05161		100	AC0340	NU VE C	AF15792
	05145	7630	0 0	00017		LLS	15	163	4F15793
	05146	7600	0 0	00006		COM			4F15794
	05147	4020	0 0	01407		SOR	L(1)		4F15795
	05150	7340	0 2	00000		PAX	0,8		4F15796
:	05151 -0	7540	0 2	00000		FAU	CM+3	STORE ARGUMENT RUFFER RELATIVE ADDRESS	4F15797
	05152	6020	0 0	06167		SEW	CWTS	STORE ARGOREM DOLLER REEATTIC MODILES	4F15798
	05153 -0	5340	0.2	00470		CAL	EODEUD-1.P		4F15799
	05154 -0	5000	0 2	00470		CAL	PORSOB-19B	EXTRACT FUNCTION STATEMENT TYPE	4F15800
	05155 -0	3200	0 0	01452		ANA	MA SKZ	EXTRACT FUNCTION STATEMENT THE	4F15801
	05156 -0	2010	0 0	01203	160220	CIW	CM+3		4F15802
	05157	0020	0 0	00100	AC0320	TDA	1.0	RETURN	4F15803
	05160 0	6000	0 4	06167	AC0340	ST7	CW+3	NON-SUBSCRIPTED REAL VARIABLE	4F15804
	02101 0	5000	2 0	06177	ACODTO	CAL	SYMWRD		4F15805
	05162 -0	0200	0 0	05157		TPA	AC0320	·	4F15806
	05164 -0	5000		03137	AC0350	CAI	H1		4F15807
	05166 0	0300	0 0	05171	ACOJJO	TRA	AC0420		4F15808
	05165 0	5000	ם ס	01501	AC0390	CLA	11	FIX PT INTERNAL VARIABLE	4F15809
	05160 0	0200	0 0	05171	ACOSTO	TRA	AC0420		4F15810
	05170 0	5000	ňň	01502	AC0410	CLA	ÂĹ	FLO PT INTERNAL VARIABLE	4F15811
	05171 0	6010	0 0	06166	AC0420	STO	CW+2		4F15812
	05172 -0	7730	0.0	00006	700120	ROL	6		4F15813
	05172 -0	6000	0 0	06167		STQ	CW+3		4F15814
	05174 0	0200	0 4	00001		TRA	1 • C	RETURN	4F15815
	05175 -0	7630	ח ח	00001	AC0460	LGL	35	SYMBOL IS SOME S(K)	4F15816
	05176 0	7340	0 2	00000	TORADD	PAX	0 • B		4F15817
	05177 -0	5000	0 2	06174		CAL	CPBETA+B		4F15818
	05177 -0	3200	2	01527		ANA	MASK1	EXTRACT PHI(K)	4F15819
	05200 0	6020	ົດ	06167		SLW	CW+3		4F15820
	05201 -0	5000	0 0	01120		CAL	ARERAS		4F15821
	05202 0	0200	n o	05157		TRA	AC0320		4F15822
	05204 0	6020	0 0	06170	AC0540	SLW	TAGWRD.	SUBSCRIPTED VARIABLE	4F15823
	05205 0	5600	o o	06170		LDQ	TAGWRD		4F15824
	05206 -0	7540	ōŏ	00000		PXD	•0	CLEAR AC.	4F15825
	05207 -0	7630	0 0	00014		LGL	12	I-TAU TAGS TO AC.	4F15826
	05210 0	6020	0 0	06167		SLW	CW+3	STORE FOR NEXT CIT ENTRY.	4F15827
	05211 0	1620	0 0	05214		TQP	*+3		4F15828
	05212 0	6000	0 0	06167		STZ	CW+3		4F15829
	05213 -0	5000	o o	01454		CAL	2E18	REPLACE NULL TAG.	4F15830
			_						

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4F15831
                                                                SLW TAGPRT
                                                                                                         SAVE FOR LATER USE.
 05214 0 60200 0 06173
                                                                                                                                                                                                         4F15832
                                                                LGL 1
 05215 -0 76300 0 00001
                                                                                                                                                                                                         4F15833
                                                                                                        CLEAR AC.
 05216 -0 75400 0 00000
                                                                PXD •0
                                                                                                       FORM TWICE SIGMA TAG.
                                                                                                                                                                                                         4F15834
 05217 -0 76300 0 00010
                                                                LGL 8
                                                                                                                                                                                                         4F15835
                                                                ALS 1
 05220 0 76700 0 00001
                                                                ADM SIGIIX-2 FORM BASE OF TABLE + SIGMA TAG.
                                                                                                                                                                                                         4F15836
 05221 0 40100 0 00446
                                                                                                                                                                                                         4F15837
                                                                STA SDRADD
 05222 0 62100 0 05223
 05223 -0 75400 0 00000 SDRADD PXD ***0
                                                                                                                                                                                                         4F15838
                                                                                                                                                                                                         4F15839
RDR 2
 05224 0 76200 0 00302
                                                                                                                                                                                                         4F15840
                                                                                                                                                                                                         4F15841
                                                                                                                                                                                                         4F15842
                                                                                                                                                                                                        4F15843
                                                                                                                                                                                                        4F15844
                                                                                                                                                                                                        4F15845
                                                                                                                                                                                                        4F15846
                                                                                                                                                                                                      4F15847
                                                                                                                                                                                                        4F15848
                                                                                                                                                                                                        4F15849
                                                                                                                                                                                                        4F15850
                                                                                                                                                                                                        4F15851
                                                                                                                                                                                                        4F158511
05241 0 07400 4 03401 CP6000 TSX FLTR00,4 COMPILE FLOW TRACE INFORMATION AND THEN 4F158512 COMPILE LXD 7(TYPE =,4 4F158512 4F1585
                                                                                                                                                                                                        4F158512
                                                                                                                                                                                                        4F158513
                                                                                                                                                                                                        4F158514
                                                                                                                                                                                                        4F158515
                                                                                                                                                                                                        4F158516
                                                                                                                                                                                                        4F158525
                                 05247 ENDDDR BSS 0
                                                                                                                                                                                                        4F15853
                                                                                                                                                                                                        4F15854
                                    06160 ENDD
                                                               ORG 3184
                                                                                                                                                                                                        4F15855
                                    06160 FNSW BSS 1
                                                                                                                                                                                                        4F15856
                                    06161 P(CNTR BSS 1
                                                                                                                                                                                                        4F15857
                                    06162 ARGORG BSS 1
                                                                                                                                                                                                        4F15858
                             06163 XRSAVE BSS 1
                                                                                                                                                                                                        4F15859
                                    06164 CW
                                                               BSS 4
                                                                                                                                                                                                        4F15860
                                    06170 TAGWRD BSS 1
                                                                                                                                                                                                        4F15861
                                    06171 OPWORD BSS 1
                                                                                                                                                                                                        4F15862
                                    06172 SYMWRD BSS 1
                                                                                                                                                                                                        4F15863
                                    06173 TAGPRT BSS 1
                                                                                                                                                                                                        4F15864
                                    06174 CPBETA BSS 300
                                                                                                                                                                                                       4F15865
                                    06650 SCRIPL BSS 600
                                                                       END OF ARITHMETIC / STATE D.
                                                                        4F15868
                                                                                                                                                                                                       4F15869
                                                                       SYNONYMS USED BY SECTION ONE.
                                    01100 1E SYN ERASE COMMON WORKING STORAGE.
00004 1TOCS SYN 4 ENTRY TO SYSTEM TAPE MONITOR.
01101 2E SYN ERASE+1 COMMON WORKING STORAGE.
                                                                                                                                                                                                       4F15870
                                                                                                                                                                                                       4F15871
                                                                                                                                                                                                       4F15872
                                                                                                                                                                                                       4F15873
                                                                SYN II
                                     01501 2P
                                    01531 360NES SYN ALL1
                                                                                                                                                                                                       4F15874
                                                                                                              COMMON WORKING STORAGE.
                                    01102 3E SYN ERASE+2
                                                                                                                                                                                                       4F15875
                                                                                                                                                                                                       4F15876
                                     01117 3QBAR SYN 3LBAR
```

01103	4E -	SYN	ERASE+3	COMMON WORKING STORAGE.	4F15877
00001	Á	EQU	1		4515070
01430	ABLANK	SYN	BLANK		4515000
01376	ACOMMA	SYN	COMMA		4515880
01532	ADD	SYN	L(ADD)		4515881
01400	AEQUAL	SYN	EQUAL		4515882
01375	ALPAR	SYN	OPEN		4515883
02404	ARITH	SYN	STATEB		4F15884
01377	ARPAR	SYN	CLOS		4515889
01535	ARS	SYN	L(ARS)		4515886
00002	В	EQU	2		4515887
00004	C	EQU	4		4515888
01537	CAL	SYN	L(CAL)	• .	4515889
01731	CIT	SYN	CITOO		4F15890
01150	CITMOR	SYN	E1C	ERASABLE STORAGE.	4F15891
00223	CITTAP	SYN	147	COMPILED INSTRUCTION TAPE.	4F15892
01101	CITXR1	SYN	ERASE+1	ERASABLE STORAGE.	4F15893
01102	CITXR2	SYN	ERASE+2	ERASABLE STORAGE.	4F15894
01544	CPY	SYN	L(CPY)		4F15895
01454	D1	SYN	2E18		4F15896
01101	D12	SYN	ERASE+1	COMMON WORKING STORAGE.	4F15897
01466	D18	SYN	DEC18		4F15898
01102	D3	SYN	ERASE+2	COMMON WORKING STORAGE.	4F15899
01546	DED	SYN	L(DED)		4F15900
00000	DEL(A)	SYN	0	DRUM ORIGIN FOR STATE A.	4F15901
02210	DEL(B)	SYN	1160	DRUM ORIGIN FOR STATE B.	4F15902
02373	DELIC	SYN	1275	DRUM ORIGIN FOR STATE C.	4F15903
01322	DEL(D)	SYN	722	DRUM ORIGIN FOR STATE D.	4F15904
00310	DIM1	SYN	0200	DRUM TABLE ORIGIN -DRTABS.DIM.SR.	4F15905
00764	DIM2	SYN	0500	DRUM TABLE ORIGIN -DRTABS.DIM.SR.	4F15906
01440	DIM3	SYN	0800	DRUM TABLE ORIGIN -DRTABS.DIM.SR.	4F15907
01100	DIMCTR	SYN	ERASE	COMMON WORKING STORAGE.	4F15908
01500	DMP	SYN	E(4F15909
01100	DOE	SYN	ERASE	COMMON WORKING STORAGE.	4F 15910
01103	DRCKSM	SYN	ERASE+3	COMMON WORKING STORAGE.	4F15911
01104	DRMADR	SYN	ERASE+4	ERASABLE STORAGE.	4F15912
01413	DRMERC	SYN	L(5)	NUMBER OF DRUM READING ATTEMPTS.	4F15913
01100	DRSYM	SYN	ERASE	COMMON WORKING STORAGE.	4F15914
01100	EITDR	SYN	ERASE	COMMON WORKING STORAGE.	4F15915
01101	E2C	SYN	ERASE+1	COMMON WORKING STORAGE.	4F15916
01101	E2TDR	SYN	ERASE+1	COMMON WORKING STORAGE.	4F15917
01102	E3C	SYN	ERASE+2	COMMON WORKING STORAGE.	4F15918
01102	F3TDR	SYN	ERASE+2	COMMON WORKING STORAGE.	4F15919
01101	EKE	SYN	ERASE+1	COMMON WORKING STORAGE.	4F15920
01103	ENOND	SYN	ERASE+3	COMMON WORKING STORAGE.	4F15921
01104	FEOD	SYN	ERASE+4	COMMON WORKING STORAGE.	4F15922
00002	FIXCON	SYN	0002	DRUM TABLE ORIGIN -DRTABS.	4F15923
00312	FLOCON	SYN	202	DRUM TABLE ORIGIN -DRTABS.	4F15924
00002	FXCODR	SYN	2		4F15925
01102	Н	SYN	ERASE+2	COMMON WORKING STORAGE.	4F15926
01522	H (SYN	ADSPOP	•	4F15927
01554	HPR	SYN	L (HPR)	ERASABLE STORAGE. COMPILED INSTRUCTION TAPE. ERASABLE STORAGE. ERASABLE STORAGE. COMMON WORKING STORAGE. COMMON WORKING STORAGE. DRUM ORIGIN FOR STATE A. DRUM ORIGIN FOR STATE B. DRUM ORIGIN FOR STATE D. DRUM ORIGIN FOR STATE D. DRUM TABLE ORIGIN -DRTABS.DIM.SR. DRUM TABLE ORIGIN -DRTABS.DIM.SR. DRUM TABLE ORIGIN -DRTABS.DIM.SR. COMMON WORKING STORAGE. COMMON WORKING STORAGE.	4F15928
01555	I DA	SYN	L (LDA)		4F15929
01561	LXD	SYN	L(LXD)		4F15930
0.1.701			war mitter	•	

01373	L(10)		TEN		4F15931
01400	L(11)	SYN	EQUAL		4F15932
01420	L(12)	SYN	MINUS		4F15933
01454	L(1D)	SYN	2E18		4F15934
01374	L(63)	SYN	ENDMK		4F15935
03440	MEMORG	SYN	1824	MEMORY ORIGIN FOR ALL STATES.	4F15936
01452			MASK2		4F15937
	MTR000	SYN	STATEA	•	4F15938
	MTR300				4F15942
01103	_		ERASE+3	COMMON WORKING STORAGE.	4F15943
01404			12Z		4F15945
01566			L(PXD)		4F15946
	RAXR4	SYN	ERASE	COMMON WORKING STORAGE.	4F15947
	SIGMAI		0662	DRUM TABLE ORIGIN -DRTABS.	4F15948
01101	SR6WRK	SYN	ERASE+1	ERASABLE STORAGE.	4F15949
01416			L(8)		4F15950
01571		_	L(STA)		4F15951
			ERASE+4	COMMON WORKING STORAGE.	4F15952
	TABTAP			TABLE TAPE.	4F15953
01453			2E17		4F15954
	TAU1	_	0000	DRUM TABLE ORIGIN -DRTABS.	4F15955
00454			0300	DRUM TABLE ORIGIN -DRTABS.	4F15956
01356			0750	DRUM TABLE ORIGIN -DRTABS. DRUM TABLE ORIGIN -DRTABS. TAPE ERROR COUNTER.	4F15957
01413			L(5)	TAPE ERROR COUNTER.	4F15958
			ERASE+3	ERASABLE STORAGE.	4F15959
01102	TETWRK	SYN	ERASE+2	ERASABLE STORAGE.	4F15960
01100	TETXR2	SYN	FRASE	ERASABLE STORAGE.	4F15961
01101	TETYRA	SYN	ERASE+1	ERASABLE STORAGE.	4F15962
01576			L(TIX)		4F15963
01504		SYN			4F15964
00000		EQU			4F15965
00000	••	LWO		SYNONYMS USED BY SECTION ONE.	4F15966
			* * * *	* * * * * * * * * * * * * * * * * * * *	*4F15967
					4F15968
			END OF	SECTION ONE.	4F15969
00000		END	2.15		4F15970
20000					

```
REM 704 FORTRAN MASTER RECORD CARD / DIAGNOSTIC = F0200000.
                                                                          4F1D0010
                                                                                                   4F1D0010
                                    704 FORTRAN MASTER RECORD CARD / DIAGNOSTIC = F0200000.
                  00000
                                ORG 0
                                                                                                   4F1D0020
       0 13440 0 13440
                                PZE DIAG.DIAG
                                                                                                   4F1D0030
00001 0 00000 0 17777
                                PZE 8191
                                                                                                   4F1D0040
                                    704 FORTRAN TWO, SECTION ONE DIAGNOSTIC, RECORD F020.
                                                                                                   4F1DG050
                                                                                                   4F1D0060
                                    THIS RECORD IS CALLED IN FROM TAPE ONCE FOR EACH ERROR IN
                                                                                                   4F1D0070
                                    SECTION ONE AND ONCE AT THE END OF SECTION ONE.
                                                                                                   4F1D0080
                                                                                                   4F1D0090
                  13440 DIAG
                                ORG 1824+4096
                                                      MOD 4K OR 8K MACHINE SIZE
                                                                                                   4F1D0100
                  00001
                                EQU 1
                                                                                                   4F1D0110
                  00002
                         В
                                EQU 2
                                                                                                   4F1D0120
                  00004
                         C
                                EQU 4
                                                                                                   4F1D0130
                  77777
                         EXITX EQU 32767
                                                                                                   4F1D0140
       3 00000 4 13543 EDIT
                                                      IF IR4 IS ZERO THIS IS THE END OF SEC ONE. 4F1D0150
                               TXH ERENT, C.O
13441 0 50000 0 00020
                                CLA 16
                                                      IF NON ZERO IT IS AN ERROR CALL.
                                                      IF IT IS THE END OF SEC ONE WERE THERE ANY 4F1D0170
                               ANA L(4)D
13442 -0 32000 0 14033
13443 0 10000 0 00004
                               TZE 4
                                                      ERRORS DURING SECTION ONE ( INDICATED BY
                                                                                                  4F1D0180
                               TSX PRINT . C
13444 0 07400 4 14121
                                                                                                   4F1D0190
13445 0 14104 0 14067
                               HTR STOP,0,XCOM
                                                                                                   4F1D0200
                               TSX PRINT C
                                                      BIT IN WORD 20 OCTAL). IF THERE WERE NO
                                                                                                   4F1D0210
13446
       0 07400 4 14121
       0 14045 0 14044
                               PZE RESTR.O.RESTR+1
                                                      ERRORS GO TO SEC ONE PRIME. IF THERE WERE
                                                                                                  4F1D0220
13447
       0 53400 4 02367
                               LXA DCELL1,4
                                                      GET INDICATOR OF SOURCE PROGRAM ERRORS.
                                                                                                  4F1D0230
13450
       3 00000 4 13456
13451
                               TXH SOURCE,4,0
                                                      TEST IF ANY OF ERROR WERE SOURCE.
                                                                                                  4F1D0240
                               LXA L(8),4
                                                      NONE WERE, SO BACKSPACE TAPE 1 TO MACHINE 4F1D0250
13452
       0 53400 4 14013
       0 76400 0 00201
                               BST 1
                                                      ERROR RECORD.
                                                                                                  4F1D0260
13453
       2 00001 4 13453
                                                                                                  4F1D0270
13454
                               TIX *-1,4,1
                                                      NOW GO TO 1 TO CS FOR MACHINE ERROR RECORD. 4F1D0280
13455
       0 02000 0 00004
                               TRA 4
                                                      SOME SOURCE PROGRAM ERRORS, RECOMPILATION 4F1D0290
       0 53400 4 14015 SOURCE LXA L(12),4
                                                      MEANINGLESS. BACKSPACE TAPE 1 TO SOURCE
                                                                                                  4F1D0300
       0 76400 0 00201
                               BST 1
13457
                               TIX *-1,4,1
                                                      PROGRAM ERROR RECORD.
                                                                                                  4F1D0310
       2 00001 4 13457
13461
       0 02000 0 00004
                               TRA 4
                                                      NOW GO TO 1 TO CS FOR THIS RECORD.
                                                                                                  4F1D0320
                               BSS 10
                                                      EXPANSION AREA. FOR PESSIMISM...
                  13462
                                                                                                  4F1D0330
                                   NUMBERS OF MACHINE ERROR CALL FROM SECTION ONE.
                                                                                                  4F1D0340
                        MACERR BCD 1002034
                                                                                                  4F1D0350
13474
       000002000304
13475
       000002000602
                               BCD 1002062
                                                                                                  4F1D0360
       000002020606
                               BCD 1002266
                                                                                                  4F1D0370
13476
13477
       000002040303
                               BCD 1002433
                                                                                                  4F1D0380
13500
       000002040304
                               BCD 1002434
                                                                                                  4F1D0390
13501
       000002040305
                               BCD 1002435
                                                                                                  4F1D0400
                               BCD 1002436
13502
       000002040306
                                                                                                  4F1D0410
13503
       000002050203
                               BCD 1002523
                                                                                                  4F1D0420
13504
                               BCD 1002565
                                                                                                  4F1D0430
       000002050605
13505
       000003020702
                               BCD 1003272
                                                                                                  4F1D0440
13506
       000003050601
                               BCD 1003561
                                                                                                  4F1D0450
13507
       000005070105
                               BCD 1005715
                                                                                                  4F1D0460
13510
       000004030407
                               BCD 1004347
                                                                                                  4F1D0470
13511
       000005020303
                               BCD 1005233
                                                                                                  4F1D0480
                               BCD 1000553
                                                                                                  4F1D0490
13512
       000000050503
13513
       00000050600
                               BCD 1000560
                                                                                                  4F1D0500
13514
       000000050603
                               BCD 1000563
                                                                                                  4F1D0510
13515
       000000050606
                               BCD 1000566
                                                                                                  4F1D0520
13516
       000100050304
                               BCD 1010534
```

13517	0	00102070	500		BCD	1012750		
1991:	. •	0102010	13520		BSS		MORE PESSIMISM	
13542	0	00000				20		4F1D0540
	•							4F1D0550
						THIS IS AN ERROR	CALL.	4F1D0560
12542	_0	75400 4	00000	ERENT	PXD			4F1D0570
		76000		LALIN	COM		CONSTRUCT OCTAL STOP	4F1D0580
13545		40000 0				L(1)D		4F1D0590
		73400 2				0.8	•	4F1D0600
		75400 2			_	0 • B		4F1D0610
		76500			LRS			4F1D0620
		53400 2				L(6)D.B		4F1D0630
		76700		ALS	ALS			4F1D0640
		76300 0		ALU	LGL	-		4F1D0650
		00001 2				ALS.B.1		4F1D0660
13555		60100				NUMB		4F1D0670
13556		53400 1				L(0)+1	SET TO SEARCH TABLE OF NUMBERS OF MACHINE	4F1D0680
13557		53400 2				COUNT 2	ERRORS.	4F1D0690
13560		34000 1				MACERR +1	COMPARE EACH ENTRY IN TABLE TO OCTAL	4F1D0700
		00001				*+3,1,1	NUMBER IN AC.	4F1D0710
13561		02000				*+4	EXIT IF FOUND.	4F1D0720
13562		00001				*+1,1,1		4F1D0730
13563						*-4,2,1	CONTINUE.	4F1D0740
13564		00001 2 62100 0				DCELL1	SET INDICATOR TO NON-ZERO FOR SOURCE ERROR	4F1D0750
13565	_							4F1D0760
13566		53400 3			CLA	YYY	CONSTRUCT CALLING SEQUENCE WORD FOR	4F1D0770
13567	-	50000			CAS	TARLEA	PRINTING COMMENT	4F1D0780
13570		34000 1		ONE	TDA	L(0)+3 XXX TABLE+A TWO FOUR		4F1D0790
13571		02000			TDA	FOUR		4F1D0800
13572		02000		TWO	TYI	THREE,A,-1	·	4F1D0810
13573		77777 1				ONE+A+O		4F1D0820
13574		00000				NUMB		4F1D0830
13575		50000		-		XCOM		4F1D0840
13576		.60100				XKEY	·	4F1D0850
		50000				EIGHT		4F1D0860
13600		02000		FOUR		FIVE +B+0		4F1D0870
13601	_	00000 2		FOOR		TABLE+1.A	•	4F1D0880
13602		40200 1				SEVEN		4F1D0890
13603		10000 C				NUMB		4F1D0900
13604						TABLE+1+A		4F1D0910
13605		40200 1			-	NINE		4F1D0920
13606		10000 0				XXX		4F1D0930
13607	_	50000				TWO		4F1D0940
13610		02000 0		NINE		FIVE,A,-1		4F1D0950
13611	.1	77777 1	12017	FIVE	PXD			4F1D0960
		75400		LIVE	COM	V7A		4F1D0970
13613		76000				L(1)D		4F1D0980
13614		40000			PDX			4F1D0990
13615	-0	73400 4	00000			0,0		4F1D1000
13616	-0	75400 4	14040			TABAD	·	4F1D1010
	0	40000	14042			SIX,8,0		4F1D1020
13620		00000 2				-		4F1D1030
13621		77100 0			ARS			4F1D1040
13622		60100			STO			4F1D1050
13623	0	50000	14037		CLA	XXX	the control of the co	

	13624	1	00001	2	13574		TXI	THREE,B,1							4F1D1060
			50100			SIX	ORA	KEY							4F1D1070
	13626		02000					EIGHT							4F1D1080
	13627	0	50000	0	14047	SEVEN	CLA	NUMB					-		4F1D1090
	13630		60100					XCOM							4F1D1100
	13631	0	50000	0	14046			XKEY							4F1D1110
	13632	_	60100	-		EIGHT								•	4F1D1120 4F1D1130
	13633		50000					F-1							4F1D1140
	13634	_	60100					F-2							4F1D1150
	13635		50000					BLANK							4F1D1160
	13636		60100					F-1		CON	CTOUCT	CALLING S	SECHENCE	MUDD	4F1D1170
			53400					L(X)D+A		CON	SIKUCI	CALLING .	SEGUENCE	HUND	4F1D1180
	13640	_	50000	_	_			ONES							4F1D1190
	13641		34000			STAUS		F+111,A							4F1D1200
	13642		02000					STA10							4F1D1210
	13643		02000			67.10		STA20							4F1D1220
	13644	_	00001			SIAIU		STA05+A+1							4F1D1230
			53400			CT 4 2 0		L(0) •A							4F1D1240
			75400			STA20		SES ·							4F1D1250
	13647		60100					L(X)D							4F1D1260
	13650		50000					SES							4F1D1270
	13651		40200					FORG							4F1D1280
	13652		40000 60100					SES							4F1D1290
	13653		50000					FORG							4F1D1300
٠.	13654 13655		77100				ARS								4F1D1310
			50100					SES							4F1D1320
	13657		60100					STATE							4F1D1330
	13660		50000				CLA			WAS	THERE	A PREVIOU	JS ERROR	CALL	4F1D1340
			32000				ANA	L(4)D							4F1D1350
			10000				TNZ	PROG							4F1D1360
	13663		50000				CLA	L(4)D	NO.	MAKE	ERROR	CALL IND	CATION		4F1D1370
			60200				ORS	16							4F1D1380
	13665		07400				TSX	PRINT,C		AND	PRINT	HEADING			4F1D1390
	13666	Q	14067	0	14052		HTR	START.0.STOP							4F1D1400
	13667	0	76600	0	00361		WPR								4F1D1410
	13670	0	76600	0	00361		WPR								4F1D1420
	13671	0	76600	0	00361		WPR								4F1D1430
	13672	0	76600	0	00361		WPR								4F1D1440
	13673	0	07400	4	13742	PROG		SETNBC +4							4F1D1450
	13674	0	07400	4	13746			NNBC • 4							4F1D1460
	13675	0	07400	4	13746			NNBC • 4							4F1D1470
	13676		40200					L(10)							4F1D1480
	13677		10000					EXIT							4F1D1490 4F1D1500
	13700		07400					SETNBC • 4							4F1D1510
Ť.	13701		07400					NNBC • 4							4F1D1520
	13702		40200				-	L(X)							4F1D1530
	13703		10000					CALLBK							4F1D1540
	13704		50000				-	L(I)							4F1D1550
	13705		07400					REP+4							4F1D1560
	13706		07400					NNBC • 4					•-		4F1D1570
	13707		50000					L(F)							4F1D1580
	13710		07400					REP+4							4F1D1590
	13711	.0.	07400	4	13/46		134	NNBC , 4							

13712 0 40200 0 14003	SUB L(=)		4F1D1600
	TNZ EXIT		4F1D1610
13713 -0 10000 0 14022		· · · · · · · · · · · · · · · · · · ·	4F1D1620
13714 0 50000 0 14004	CLA L(LP)		
13715 0 07400 4 13760	TSX REP+4		4F1D1630
13716 -3 77622 1 14022 TXE	TXL EXIT+1+-110		4F1D1640
13717 0 07400 4 13746	TSX NNBC,4	· · · · · · · · · · · · · · · · · · ·	4F1D1650
13720 0 40200 0 14016	SUB ENDM		4F1D1660
13721 -0 10000 0 13716	TNZ TXE		4F1D1670
13722 0 50000 0 14005	CLA L(RP)	·	4F1D1680
13723 0 07400 4 13760	TSX REP.4		4F1D1690
	TRA EXIT		4F1D1700
13724 0 02000 0 14022			4F1D1710
13725 0 50000 0 14010 CALLBK			4F1D1720
13726 0 07400 4 13760	TSX REP+4		4F1D1730
13727 0 07400 4 13746	TSX NNBC • 4		
13730 0 50000 0 14011	CLA L(A)		4F1D1740
13731 0 07400 4 13760	TSX REP+4		4F1D1750
13732 0 07400 4 13746	TSX NNBC +4		4F1D1760
13733 0 50000 0 14012	CLA L(L)		4F1D1770
13734 0 07400 4 13760	TSX REP#4		4F1D1780
13735 2 00001 2 13737	TIX SECL +2+1		4F1D1790
13736 1 77777 1 13737	TXI SECL +1 +-1	ADJUST COUNTS FOR NEXT CHAR	4F1D1800
13737 0 50000 0 14012 SECL	TXI SECL+1+-1 CLA L(L)	CHANGE BLANK BACK TO SECOND L	4F1D1810
13740 0 07400 4 13760	TCV DED.A		4F1D1820
13741 0 02000 0 14022	TRA EXIT		4F1D1830
13742 -0 53400 1 13752 SETNBO	I XD TXI+1	· · · · · · · · · · · · · · · · · · ·	4F1D1840
	LXA LGL.2		4F1D1850
13743 0 53400 2 13747	LDQ F		4F1D1860
13744 0 56000 0 01152	TRA 194		4F1D1870
13745 0 02000 4 00001	IKW 134		4F1D1880
13746 -0 75400 0 00000 NNBC	PXD		F1D1890
13747 -0 76300 0 00006 LGL	LGL 6		F1D1900
13750 2 00001 2 13754	TIX CAS,2,1		F1D1910
13751 0 56000 1 01152	LDQ F.1		
13752 1 77777 1 13753 TXI	TXI TXI+1+1-1		F1D1920
13753 0 53400 2 13747	LXA LGL,2		F1D1930
13754 0 34000 0 14006 CAS	CAS DEMINA		F1D1940
13755 0 02000 4 00001	TRA 1,4		F1D1950
13756 0 02000 0 13746	TRA NNBC		F1D1960
13757 0 02000 4 00001	TRA 1,4		F1D1970
13760 -0 60000 0 14017 REP	STQ ES1		F1D1980
13761 -0 63400 2 14020	SXD ES2,2	4	F1D1990
13762 -0 63400 1 14021	SXD ES3+1	4	F102000
13763 0 76500 0 00043	LRS 35	4	F1D2010
13764 -0 50000 0 14016	CAL ENDM	4 · · · · · · · · · · · · · · · · · · ·	F1D2020
13765 -3 00005 2 13767 TXL	TXL TXL+2+2+5	4	F1D2030
13765 -3 00005 2 13767 176	TXI TXL+4,1,1		F1D2040
13766 1 00001 1 13771 13767 -0 76300 0 00006	LGL 6		F1D2050
13/6/ 40 /6300 0 00000	TIX TIX-1,2,1		F1D2060
13770 2 00001 2 13767 TIX	COM	· · · · · · · · · · · · · · · · · · ·	F1D2070
13771 0 76000 0 00006			F1D2080
13772 0 32000 1 01151	ANS F-1+1		F1D2090
13773 -0 76300 0 00044	LGL 36		
13774 -0 60200 1 01151	ORS F-1+1		F1D2100
13775 -0 53400 1 14021	LXD ES3+1		F1D2110
13776 -0 53400 2 14020	LXD ES2,2		F1D2120
13777 0 56000 0 14017	LDQ ES1	and the second of the second o	F1D2130

T

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4F1D2140
                               TRA 1:4
       0 02000 4 00001
14000
                                                                                                    4F1D2150
                               BCD 100000I
                        L(1)
       000000000031
14001
                                                                                                    4F1D2160
                               BCD 100000F
       000000000026
                        L(F)
14002
                                                                                                    4F1D2170
                                BCD 100000=
14003
       000000000013
                        L(=)
                                                                                                    4F1D2180
                        L(LP)
                               BCD 100000 (
       000000000074
14004
                                                                                                    4F1D2190
                               BCD 100000)
                        L(RP)
14005
       000000000034
                                                                                                    4F1D2200
                        BLANKX BCD 100000
       000000000060
14006
                                                                                                    4F1D2210
                                BCD 100000X
14007
       000000000067
                        L(X)
                                                                                                    4F1D2220
                        L(C)
                                BCD 100000C
14010
       000000000023
                                                                                                    4F1D2230
                                BCD 100000A
                        L(A)
       000000000021
14011
                                                                                                    4F1D2240
                                BCD 100000L
                        L(L)
14012
       000000000043
                                                                                                    4F1D2250
       0 00000 0 00010 L(8)
14013
                                                                                                    4F1D2260
14014 +000000000012
                        L(10)
                               OCT 12
                                                                                                    4F1D2270
       0 00000 0 00014 L(12)
                                    12
14015
                                                                                                    4F1D2280
                                OCT 77
14016 +0000000000077
                        ENDM
                                                                                                    4F1D2290
                               HTR
       0 00000 0 00000 ES1
14017
                                                                                                    4F1D2300
       0 00000 0 00000 ES2
                                HTR
14020
                                                                                                    4F1D2310
                               HTR
       0 00000 0 00000 ES3
14021
                                                                                                    4F1D2320
                                                            PRINT STATEMENT
                         SECND TSX PRINT C
       0 07400 4 14121
14022
                                                                                                    4F1D2330
                         STATE HTR
       0 00000 0 00000
14023
                                                                                                    4F1D2340
                                                            PRINT COMMENT
                                TSX PRINT + C
       0 07400 4 14121
14024
                                                                                                    4F1D2350
       0 00000 0 00000
                         COMM HTR
14025
                                                                                                    4F1D2360
                                WPR
       0 76600 0 00361
14026
                                                                                                    4F1D2370
       0 76600 0 00361
                                WPR
14027
                                                                                                    4F1D2380
                                                            TAPE
                               BST 1
                         BST
14030
       0 76400 0 00201
                                                            AND RETURN TO SEC ONE MONITOR
                                                                                                    4F1D2390
                                TRA MON
       0 02000 0 02402
14031
                                                                                                    4F1D2400
                         L(1)D OCT 1000000
14032 +000001000000
                                                                                                    4F1D2410
                        L(4)D OCT 4000000
14033 +000004000000
                                                                                                    4F1D2420
                         L(6)D OCT 6000000
14034 +000006000000
                                                                                                    4F1D2430
14035 0 00000 0 00000 L(0)
                               HTR
                                                                                                    4F1D2440
                               OCT 777777777777
14036 -377777777777
                         ONES
                                                                                                    4F1D2450
                               BCD 1XXXXXX
14037 676767676767
                         XXX
                                                                                                    4F1D2460
                         HALT OCT 77777
14040 +000000077777
                                                                                                    4F1D2470
                         L(X)D OCT 161000000
14041 +000161000000
                                                                                                    4F1D2480
                         TABAD HTR 0,0,TABLE
      0 14504 0 00000
14042
                                                                                                    4F1D2490
                         FORG HTR 0.0.F-2
14043
       0 01150 0 00000
                                                                                                    4F1D2500
                         RESTR BCD 11
14044
       016060606060
                                                                                                    4F1D2510
                         BLANK BCD 1
14045
       606060606060
                                                                                                    4F1D2520
                         XKEY HTR XCOM.0.XXCOM
       0 14121 0 14104
14046
                                                                                                    4F1D2530
       0 00000 0 00000
                         NUMB
                               HTR
14047
                                                                                                    4F1D2540
14050 0 00000 0 00000
                         KEY
                               HTR
                                                                                                    4F1D2550
                               HTR
14051 0 00000 0 00000
                         SES
                                                                                                    4F1D2560
                         START BCD 71
       016060606060
14052
       606060606060
14053
       606060606060
14054
14055
       606060606060
       606060606060
14056
14057
       606060606060
       606060606060
14060
                                                                                                    4F1D2570
                               BCD 6FORTRAN DIAGNOSTIC PROGRAM RESULTS
       264651635121
14061
14062
       456024312127
       454662633123
14063
```

14065

	14066	644363626060															4F1D2580
	14067	006060606060	STOP	BCD	70												44.202500
	14070	6 06060606060															
	14071	606060606060															
	14072	606060606060															
	14073	606060606060															
	14074	606060606060															
	14075	606060606060															4F1D2590
	14076	254524604626		BCD	6END	OF DI	AGNO:	STIC	PROGR	RAM R	ESUL	.15					41102330
	14077	602431212745															
	14100	466263312360															
	14101	475146275121															
	14102	446051256264															
	14103	436362606060							•								. =
A	14104	0 00000 0 00000	XCOM	HTR													4F1D2600
^	14105	606060606060		BCD		THI	S ERI	ROR 1	S NOT	LIS	TED	IN	THE	DIAGN	OSTIC	PROGRAM	ERR4F1D2610
	14106	633031626025															
	14107	515146516031															
	14110	626045466360	•														
	14111	433162632524															
	14112	603145606330															
	14112	256024312127															
	14114																
		604751462751															
	14115	214460255151														•	
	14116			BCD	20R	IST.											4F1D2620
	14117	465160433162		DCD	2010												
	14120	633360606060	XXCOM	BSS	^												4F1D2630
			PRINT	_	-												4F1D2640
		14121															4F1D2650
	14121	0 50000 4 00001	RAN		1,4												4F1D2660
	14122	0 62100 0 14163			RNA							•					4F1D2670
	14123	0 77100 0 00022		ARS													4F1D2680
	14124	0 60100 0 14164			RNB	٨.											4F1D2690
		-0 63400 4 14165	541.6		RNC	+											4F1D2700
	14126	0 50000 0 14163			RNA												4F1D2710
	14127	0 40000 0 14166			RND												4F1D2720
	14130	0 34000 0 14164			RNB												4F1D2730
	14131	0 76100 0 00000		NOP	2112												4F1D2740
	14132	0 02000 0 14153			RN50	•											4F1D2750
	14133	0 76700 0 00022		ALS													4F1D2760
	14134	0 40000 0 14163			RNA	_											4F1D2770
	14135	0 60100 0 14137		- , -	RAN1												4F1D2780
	14136	0 07400 4 14170			WOT +												4F1D2790
A	14137	0 00000 0 00000															4F1D2800
	14140	0 50000 0 14137			RAN1	0											4F1D2810
	14141	0 77100 0 00022		ARS													4F1D2820
	14142	0 40200 0 14167		SUB	RNE												4F1D2830
	14143	0 62100 0 14150			RN20												4F1D2840
	14144	0 40200 0 14167		SUB	RNE												
	14145	0 62100 0 14151		STA	RN30												4F1D2850
	14146	0 62100 0 14163		STA	RNA												4F1D2860
	14147	0 50000 0 14402		CLA	BLNK	S											4F1D2870
	14150	0 60100 0 00000		STO													4F1D2880
A	14151	0 60100 0 00000		STO													4F1D2890
-	4471																

					4.E1.D2000
	14152 0 02000 0 14126		TRA RN40		4F1D2900 4F1D2910
	14153 0 50000 0 14164	RN50	CLA RNB		
	14154 0 76700 0 00022		ALS 18		4F1D2920
	14155 0 40000 0 14163		ADD RNA	•	4F1D2930
	14156 0 60100 0 14160		STO RN60		4F1D2940
	14157 0 07400 4 14170		TSX WOT .C		4F1D2950
A	14160 0 00000 0 00000	RN60	HTR		4F1D2960
••	14161 -0 53400 4 14165		LXD RNC,C		4F1D2970
	14162 0 02000 4 00002		TRA 2 C		4F1D2980
A .	14163 0 00000 0 00000	RNA	HTR	·	4F1D2990
Â	14164 0 00000 0 00000	RNB	HTR		4F1D3000
Â	14165 0 00000 0 00000	RNC	HTR		4F1D3010
^ .	14166 0 00000 0 00024	RND	HTR 20		4F1D3020
	14167 0 00000 0 00001	RNE	HTR 1		4F1D3030
• •	14170 -0 63400 1 14340	WOT	SXD X1.1		4F1D3040
	14171 -0 63400 2 14346		SXD X2,2		4F1D3050
			CLA 1:4	PRINT ROUTINE	4F1D3060
	14172 0 50000 4 00001		STA T5	X	4F1D3070
	14173 0 62100 0 14221		STD X4	x x	4F1D3080
	14174 0 62200 0 14403		ARS 18	x	4F1D3090
	14175 0 77100 0 00022			x	4F1D3100
	14176 0 40000 0 14403		ADD X4	X X	4F1D3110
	14177 0 62100 0 14252		STA PR2		4F1D3120
	14200 0 62100 0 14277		STA CI9	X B-A/1 TN AC	4F1D3130
	14201 0 40200 4 00001		SUB 1:4	B-A+1 IN AC	4F1D3140
	14202 0 10000 4 00002		TZE 2.4		4F1D3150
	14203 -0 12000 4 00002		TMI 2.4		4F1D3160
	14204 -0 63400 4 14403		SXD X4,4		4F1D3170
	14205 0 73400 4 00013	L11	PAX 11,4		4F1D3180
	14206 -0 63400 4 14211		SXD PR6,4	THITTAL TOP CHITCH	4F1D3190
	14207 -0 50000 0 14353		CAL WP	INITIALIZE SWITCH	4F1D3200
	14210 0 60100 0 14353		STO WP	X	4F1D3210
TD	14211 3 00000 0 14212	PR6	TXH T4		4F1D3220
	14212 0 76600 0 00361	T4	WPR		4F1D3230
TD	14213 -3 00000 0 14217	Z 2	TXL S3		
ATD	14214 -3 00000 0 00000	022	TXL		4F1D3240
	14215 0 76000 0 00364	SP4	SPR 4		4F1D3250
TD	14216 -3 00000 0 14250		TXL RPR+2	·	4F1D3260
	14217 0 50200 0 14353	S3	CLS WP	SET SWITCH FOR MASKING	4F1D3270
	14220 0 60100 0 14353		STO WP	CHARACTER FROM TYPE WHEEL 1	4F1D3280
	14221 -0 50000 0 14221	T5	CAL *	OBTAIN FIRST CHARACTER	4F1D3290
	14222 0 77100 0 00036		ARS 30	X	4F1D3300
	14223 0 10000 0 14215		TZE SP4	DOUBLE SPACE IF ZERO	4F1D3310
	14224 0 34000 0 14404		CAS YZONE	TEST FOR SPACE SUPPRESS	4F1D3320
TD	14225 -3 00000 0 14227		TXL BK	NO	4F1D3330
TD	14226 -3 00000 0 14247		TXL RPR+1	SUPPRESS SPACE	4F1D3340
	14227 0 34000 0 14405	BK	CAS BNK	TEST FOR BLANK	4F1D3350
TD	14230 -3 00000 0 14232		TXL DIGF	NO	.4F1D3360
TD	14231 -3 00000 0 14250		TXL RPR+2	BLANK	4F1D3370
,,,	14232 0 76000 0 00372	DIGF	SPR 10	SET CHANNEL SKIP	4F1D3380
	14233 -0 32000 0 14234		ANA MK	MASK OUT ZONE	4F1D3390
	14234 0 73400 1 00017	MK	PAX 15.1	OBTAIN SPR COMBINATION	4F1D3400
	14235 1 00001 1 14236		TXI N2,1,1	X	4F1D3410
	14236 -2 00010 1 14240	N2	TNX N3.1.8	X	4F1D3420
	14237 0 76000 0 00370		SPR 8	X	4F1D3430
			-		•

			_			14242	NO.	TALV	N4 + 1 + 4	X	4F1D3440
		14240	-2	76000	Ÿ	14242	N3	SPR		x x	4F1D3450
				00002			N4	-	N5 + 1 + 2	x	4F1D3460
-				76000			144	SPR		x	4F1D3470
							N5	_	RPR • 1 • 1	x	4F1D3480
		14244					No	SPR		x	4F1D3490
		14245	-	76000	_		RPR	WPR	•	•	4F1D3500
		14246		76600			KPK	SPR	E	SUPPRESS SPACE	4F1D3510
. ,		14247							BLNKS	FIND LAST NON-BLANK GROUP	4F1D3520
				50000					CI4,4	X	4F1D3530
		14251					BDS	_	0,4	x .	4F1D3540
		14252		34000			PR2		PR1,4,-1	x	4F1D3550
		14253							PR2,4,1	x̂.	4F1D3560
		14254							PR1,4,-1	x	4F1D3570
				77777			001			STORE END TEST	4F1D3580
				63400			PR1		CI6,4	X	4F1D3590
				63400					C18,4	· x	4F1D3600
				63400					PR8 • 4	x̂	4F1D3610
				63400					WP4+4	· · · · · · · · · · · · · · · · · · ·	4F1D3620
				53400					PR6 • 4	X	4F1D3630
D		14263	-2	00000	4	14267	PR8		PR5 • 4		4F1D3640
		14264	-3	00014	4	14266			PR3,4,12	EIDET CVCLE	4F1D3650
				76000				SPR	-	FIRST CYCLE	4F1D3660
				53400			PR3		PR6,4	INITIALIZE GROUP COUNT	4F1D3670
				53400			PR5	_	PR7+2	INITIALIZE LEFT SETUP	4F1D3680
				53400					YZ1:1	CLEAR CARD IMAGE	4F1D3690
T				75400			PR7	PXD		FIRST CYCLE INITIALIZE GROUP COUNT INITIALIZE LEFT SETUP CLEAR CARD IMAGE X X	4F1D3700
	1.1	14272	0	60200	1	14451	PR4		LT,1		
		14273		60200					RT+1	X	4F1D3710
		14274	2	00001	1	14272			PR4:1:1	X	4F1D3720 4F1D3730
						14407	CIR		COL1	INITIALIZE COLUMN INDICATOR	4F1D3740
		14276	0	60200	0	14410	C12	_	COL	X	
		14277	0	56000	4	00000	CI9		0,4	OBTAIN GROUP	4F1D3750
		14300	-0	63400	4	14214			0Z2•4	STORE GROUP COUNT	4F1D3760 4F1D3770
		14301	0	53400	4	14303			Q6 • 4	SET CHARACTER COUNT	
Ť		14302	-0	75400	0	00000	CI1	PXD		•	4F1D3780
•		14303	-0	76300	0	00006	Q6	LGL			4F1D3790
				73400					0,1		4F1D3800
		14305	-0	50000	0	14410			COL	POSITION COLUMN INDICATOR	4F1D3810
		14306	0	77100	4	00006		ARS	6 • 4	X	4F1D3820
		14307	Ž	00020	1	14333			YZ1+1+16	TEST FOR DIGIT	4F1D3830
		14310	3	00017	1	14336			YZ2+1+15	POSITION COLUMN INDICATOR X TEST FOR DIGIT TEST FOR Y-ZONE STORE DIGIT COUNT CHARACTERS SHIFT AND TEST COLUMN RESTORE GROUP COUNT COUNT GROUPS	4F1D3840
		14311	-0	60200	3	14446	CIS	ORS	D•3	STORE DIGIT	4F1D3850
		14312	2	00001	4	14302	C14	TIX	CI1,4,1	COUNT CHARACTERS	4F1D3860
				77100			CI3	ARS	1	SHIFT AND TEST COLUMN	4F1D3870
		14314	-0	53400	4	14214		LXD	022,4	RESTORE GROUP COUNT	4F1D3880
		14315	1	77777	4	14316		TXI	CI6,4,-1	COUNT GROUPS	4F1D3890
D		14316	-3	00000	4	14320	C16		CI7,4	RESTORE GROUP COUNT COUNT GROUPS TEST FOR LAST NON-BLANK GROUP TEST FOR END OF ROW FORM TRUE 8.4 AND 3 ROWS AND MOVE 8.4 AND 8.3	4F1D3900
-				10000				TNZ	CI2	TEST FOR END OF ROW	4F1D3910
		14320	-0	50000	2	14433	CI7	CAL	8.3.2	FORM TRUE 8,4	4F1D3920
		14321	-0	60200	2	14436		ORS	D-8 • 2	AND 3 ROWS AND	4F1D3930
		14322	-0	60200	2	14443		ORS	D-3.2	MOVE 8.4 AND 8.3	4F1D3940
		14323	õ	60200	2	14434		SLW	8.2.2	ROWS	4F1D3950
				50000					8.4.2	FORM TRUE 8.4	4F1D3960
		14325	-0	60200	2	14436			D-8+2	X	4F1D3970
		14363	-0	30200	٠	14420					•

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4F1D3980
      14326 -0 60200 2 14442
                                    ORS D-4,2
                                                                                                      4F1D3990
                                    SLW 8.3.2
      14327 0 60200 2 14433
                                                                                                      4F1D4000
                                                      TEST FOR END
                                   TXL WP 94
      14330 -3 00000 4 14353
                                                                                                      4F1D4010
                                                      TEST FOR RIGHT HALF
                                    TXH WP . 2 . 15
      14331 3 00017 2 14353
                                                                                                      4F1D4020
                                                      INITIALIZE RIGHT HALF
                                    TXI CIR, 2, 16
      14332 1 00020 2 14275
                                                                                                      4F1D4030
                                                      TEST FOR 16/CH/32
                                    TIX XZ1,1,16
      14333 2 00020 1 14341 YZ1
                                                                                                      4F1D4040
                                                      TEST FOR X-ZONE
                                    TXH XZ2:1:15
      14334 3 00017 1 14344
                                                                                                      4F1D4050
                                    ORS D.3
                                                      STORE DIGIT
      14335 -0 60200 3 14446
                                                                                                      4F1D4060
                                    ORS Y+2
                                                      STORE Y-ZONE
      14336 -0 60200 2 14450
                             YZ2
                                                                                                      4F1D4070
                                    TIX CI1,4,1
                                                      COUNT CHARACTERS
      14337 2 00001 4 14302
                                                                                                      4F1D4080
                                                      OBTAIN NEXT GROUP
                                    TXL CI3
      14340 -3 00000 0 14313
TD
                                                                                                      4F1D4090
                                    TIX 0Z1,1,16
                                                      TEST FOR 32/CH/48
      14341 2 00020 1 14347
                                                                                                      4F1D4100
                                                      TEST FOR BLANK
                                    TXH CI4,1,15
      14342 3 00017 1 14312
                                                                                                      4F1D4110
                                                      STORE DIGIT
                                    ORS D.3
      14343 -0 60200 3 14446
                                                                                                      4F1D4120
                                                      STORE X-ZONE
      14344 -0 60200 2 14447 XZ2
                                    ORS X+2
                                                                                                      4F1D4130
                                                      COUNT CHARACTERS
                                    TIX CI1,4,1
      14345 2 00001 4 14302
                                                                                                      4F1D4140
                                    TXL CI3
                                                      OBTAIN NEXT GROUP
      14346 -3 00000 0 14313 X2
TD
                                                                                                      4F1D4150
                                                      STORE 0-ZONE
                                    ORS Z+2
      14347 -0 60200 2 14446
                                                                                                      4F1D4160
                                                      STORE DIGIT
                                    ORS D+3
      14350 -0 60200 3 14446
                                                                                                      4F1D4170
                                                      COUNT CHARACTERS
      14351 2 00001 4 14302
                                    TIX CI1,4,1
                                                                                                      4F1D4180
                                    TXL CI3
      14352 -3 00000 0 14313
TD
                                                      INVERTED TO TXL IF PROGRAM CARRIAGE CONTROL
                                                                                                      4F1D4190
      14353 3 00000 0 14355
                                    TXH WP9
TD
                                                                                                      4F1D4200
                                     TXL WP7
                                                      NO PROGRAM
      14354 -3 00000 0 14361
                                                                                                      4F1D4210
                                                      MASK OUT FIRST COL. OF CARD IMAGE
      14355 -0 53400 1 14401
                                    LXD WP2.1
                                                                                                      4F1D4220
                                    CAL MK2
      14356 -0 50000 0 14406
                                                                                                      4F1D4230
                                    ANS LT+1
      14357 0 32000 1 14451
                              ANS
                                                                                                      4F1D4240
                                    TIX ANS,1,1
      14360 2 00001 1 14357
                                                                                                      4F1D4250
                                                      COPY LOOP
                              WP7
                                    LXD Z2.1
      14361 -0 53400 1 14213
                                                                                                      4F1D4260
                                    CPY LT-12,1
      14362 0 70000 1 14435
                                                                                                      4F1D4270
                                    CPY RT-12,1
      14363 0 70000 1 14415
                                                                                                      4F1D4280
      14364 1 77777 1 14365
                                    TXI T2,1,-1
                                                                                                      4F1D4290
                                    TXH CRAN , 1 , - 12
      14365 3 77764 1 14362 T2
                                                                                                      4F1D4300
                                                      RESET SWITCH FOR SECOND CYCLE
                                    CAL WP
      14366 -0 50000 0 14353
                                                                                                      4F1D4310
                                    STO WP
      14367 0 60100 0 14353
                                                                                                      4F1D4320
                                    TXH WP5,4
      14370 3 00000 4 14377
                                                      NO. RELOAD INDEX REGISTERS AND RETURN
                                                                                                      4F1D4330
                                    LXD X1+1
      14371 -0 53400 1 14340
                                                                                                      4F1D4340
                                    LXD X2.2
      14372 -0 53400 2 14346
                                                                                                      4F1D4350
                                    LXD X494
      14373 -0 53400 4 14403
                              WT2
                                                                                                      4F1D4360
      14374 0 02000 4 00002
                                    TRA 294
                                                                                                      4F1D4370
                                    WPR ·
      14375 0 76600 0 00361
                                                                                                      4F1D4380
                                     TXL PR2-2
      14376 -3 00000 0 14250
TD
                                                                                                      4F1D4390
                                    WPR
      14377 0 76600 0 00361
                                                                                                     4F1D4400
                                    SPR 9
                                                      SECOND CYCLE
      14400 0 76000 0 00371
                                                                                                      4F1D4410
                                                      CONVERT REST OF LINE
                                    TXL PR5,0,12
      14401 -3 00014 0 14267
                              WP2
                                                                                                      4F1D4420
                               BLNKS BCD 1
      14402 606060606060
                                                                                                      4F1D4430
      14403 0 00000 0 00000 X4
                                    HTR
                                                                                                      4F1D4440
                               YZONE OCT 20
      14404 +0000000000020
                                                                                                      4F1D4450
                               BNK
                                    OCT 60
      14405 +0000000000060
                                                                                                      4F1D4460
                                    OCT 37777777777
      14406 +377777777777
                               MK2
                                                                                                      4F1D4470
                              COL1 MZE
      14407 -0 00000 0 00000
                                                                                                      4F1D4480
                                    BSS 1
                              COL
                       14410
                                                                                                      4F1D4490
                              RT
                                    BES 16
                       14431
                                                                                                      4F1D4500
                                    BSS 1
                       14431
                              8.5
                                                                                                      4F1D4510
                                    BSS 1
                       14432
                             8.4
```

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BSS 1
                 14433 8.3
                                                                                              4F1D4530
                 14434 8.2
                              BSS 1
                                                                                              4F1D4540
                 14446 D
                              BES 9
                                                                                              4F1D4550
                 14446
                      Z
                              BSS 1
                 14447 X
                                                                                              4F1D4560
                              BSS 1
                                                                                              4F1D4570
                 14450 Y
                              BSS 1
                              SYN Y+1
                                                                                              4F1D4580
                 14451 LT
                 14433 8.4L
                             SYN LT-14
                                                                                              4F1D4590
                 14413 8.4R SYN RT-14
                                                                                              4F1D4600
                                                                                              4F1D4610
                 14451
                              BSS 27
                                                                                              4F1D4620
                 14022 EXIT
                              SYN SECND
                                                                                              4F1D4630
                                 ADDRESS REQUIRED FROM SECTION ONE
                              SYN 618
                                                           ADDRESS OF 1ST WORD OF F REGION
                                                                                              4F1D4640
                 01152 F
                                                           ADDRESS OF ENTRY TO MONITOR FOR A 4F1D4650
                             SYN 1282
                 02402 MON
                 02367 DCELL1 SYN 1271
                                                                                              4F1D4660
                                                                                              4F1D4670
                                                                                              4F1D4680
                                  TABLE OF DIAGNOSTIC COMMENTS, SECTION ONE OF 704 FORTRAN II. 4F1D4690
                                                                                              4F1D4700
                                                                                              4F1D4710
                                   COMMON
                                                                                              4F1D4720
                                                                                              4F1D4730
                                                                                              4F1D4740
                 14504 TABLE BSS 0
                              BCD XXXXXX000001
                                                    DIM3 TABLE EXCEEDED. THE NUMBER OF 3-DIMEN4F1D4750
14504 676767676767
14505
      000000000001
14506
      606060606060
14507
       243144036063
14510
      212243256025
14511
      672325252425
14512 243360633025
14513 604564442225
14514
      516046266003
      402431442545
14515
14516 623146452143
                             BCD SIONAL VARIABLES WHICH APPEAR IN DIMENSION STATEMENTS EXCEED4F1D4760
14517 606521513121
14520 224325626066
14521 303123306021
14522 474725215160
14523 314560243144
14524
      254562314645
14525 606263216325
14526
      442545636260
14527
      256723252524
                             BCD 15 90.
                                                                                             4F1D4770
14530 626011003360
                                                                                             4F1D4780
                             BCD XXXXXX000002
                                                    DIM2 TABLE EXCEEDED. THE NUMBER OF 2-DIMEN4F1D4790
14531 676767676767
14532 000000000002
14533 606060606060
14534 243144026063
14535 212243256025
14536 672325252425
14537 243360633025
14540 604564442225
14541 516046266002
```

4F1D4520

14542	402431442545			· .			
14543	623146452143	BC	D SIONAL VARIABL	ES WHICH APPE	AR IN DIMENSI	ON STATEMENT	S EXCEED4F1D4800
14544	606521513121						
14545	224325626066						
14546	303123306021			•	•		
14547	474725215160						
14550	314560243144						*
14551	254562314645						
14552	606263216325						
14553	442545636260						
14554	256723252524					,	
14555	626001000033	ВС	D 15 100.				4F1D4810
							4F1D4820
14556	676767676767	BC	D XXXXXX000003	DIM1 TABL	E EXCEEDED. TI	HE NUMBER OF	1-DIMEN4F1D4830
14557	000000000003			- '			
14560	606060606060			, ,			-
14561	243144016063						
14562	212243256025						
14563	672325252425						
14564	243360633025				*		
14565	604564442225						
14566	516046266001						
14567	402431442545	•					•
	623146452143	BC	D SIONAL VARIABL	ES WHICH APPE	AR IN DIMENSI	ON STATEMENTS	EXCEED4F1D4840
14571	606521513121						
14572	224325626066						
14573	303123306021						
14574	474725215160		* .				
14575	314560243144						
14576	254562314645					•	
14577	606263216325			•			
14600	442545636260			*			
14601	256723252524						
14602	626001000033	BCI	D 1S 100.				4F1D4850
						•	4F1D4860
14603	676767676767	BCI	XXXXXX000004	SIGMA TABL	LE EXCEEDED. M	ORE THAN 30	DIFFERE4F1D4870
14604	000000000004						
14605	606060606060						
14606	623127442160						
14607	632122432560						
14610	256723252524						
14611	252433604446						**
14612	512560633021						
14613	456003006024						
14614	312626255125						
14615	456360512543	BCI	NT RELATIVE ADI	DRESSES RESULT	TING FROM THE	ADDENDS IN S	UBSCRIP4F1D4880
14616	216331652560						
14617	212424512562						
14620	622562605125						•
14621	626443633145						
14622	276026514644						
14623	606330256021						
14624	242425452462						
14625	603145606264						

14626	226223513147		
14627	636260 462660	BCD TS OF THIS STATEMENT. (SIGN CONSIDERED, ONE RELATIVE ADDRESS4F1D48	390
14630	633031626062		
14631	632163254425	·	
14632	456333607462		
14633	312745602346	taran da ara-ara-ara-ara-ara-ara-ara-ara-ara-ar	
14634	456231242551		
14635	252473604645		
14636	256051254321		
14637	633165256021		
14640	242451256262		
14641	462660006021	BCD 30F 0 ASSUMMED) 4F1D49	00
14642	626264444425		
14643	243460606060		
		4F1D49	10
14644	6767676767	BCD XXXXXX000005 TAU3 TABLE EXCEEDED. THE TOTALITY OF DIFFE4F1D49	
		They that Excepte the forheit of pirred 1049	20.
14645	000000000005		
14646	606060 606060		
14647	632164036063		
14650	212243256025		
14651	672325252425		
14652	243360633025		
14653	606346632143		
14654	316370604626		
14655	602431262625		
14656	512545636003	BCD RENT 3-DIMENSIONAL SUBSCRIPT COMBINATIONS EXCEEDS 75 FOR TH14F1D49:	30
14657	402431442545		
14660	623146452143		
14661	606264226223	· · · ·	
14662	513147636023		
14663	464422314521		
14664	633146456260		
14665	256723252524		
14666	626007056026		
14667	465160633031	·	_
14670	626047514627	BCD 2S PROGRAM. 4F1D494	10
14671	512144336060		
		4F1D495	0
14672	676767676767	BCD XXXXXX000006 TAU2 TABLE EXCEEDED. THE TOTALITY OF DIFFE4F1D496	0
14673	00000000000		•
14674	606060606060		
-			
14675	632164026063		
14676	212243256025		
14677	672325252425		
14700	243360633025		
14701	606346632143		
	316370604626		
14702			
14703	602431262625		
14704	512545636002	BCD RENT 2-DIMENSIONAL SUBSCRIPT COMBINATIONS EXCEEDS 90 FOR TH14F1D497	0
14705	402431442545		
14706	623146452143		
14707	606264226223		
14710	513147636023		
14711	464422314521		

			·	
14712	633146456260		•	
14713	256723252524		•	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
14714	626011006026			
14715	465160633031			
14716	626047514627	BCD 25 PROGRAM.	N.	4F1D4980
14717	512144336060			
				4F1D4990
14720	676767676767	BCD XXXXXX000007 TAU1 TAB	LE EXCEEDED. THE TOTALITY OF DIF	FE4F1D5000
14721	000000000007	•	•	
14722	606060606060			
14723	632164016063			
14724	212243256025		•	
14725	672325252425			
14726	243360633025			
14727	606346632143		· ·	
14730	316370604626		•	
14731	602431262625			
14732	512545636001	BCD RENT 1-DIMENSIONAL SUBSCRIE	PT COMBINATIONS EXCEEDS 100 FOR	TH4F105010
14733	402431442545			
14734	623146452143			
14735	606264226223			
14736	513147636023			
14737 14740	464422314521 633146456260			
14741	256723252524			:
14742	626001000060			
14743	264651606330		•	
14744	316260475146	BCD 21S PROGRAM.		4F1D5020
14745	275121443360	DED 213 PROGRAM		41 103020
	213221113300	•	•	4F1D5030
14746	676767676767	BCD XXXXXX000010 FLOCON TA	ABLE EXCEEDED. MORE THAT 450 DIFF	E4F1D5040
14747	000000000100			
14750	606060606060			
14751	264346234645			
14752	606321224325			
14753	602567232525			
14754	242524336044		•	
14755	465125606330		•	
14756	216360040500			
14757	602431262625	·		
14760	254563602643	BCD RENT FLOATING POINT CONSTANT	S IN THIS PROBLEM. (SIGN NOT CON	S4F1D5050
14761	462163314527			
14762	604746314563			
14763	602346456263			
14764	214563626031			
14765	456063303162			
14766	604751462243			
14767	254433607462		·	
14770	312745604546			
14771	636023464562	0.50 01050501		
14772	312425512524	BCD 2IDERED)		4F1D5060
14773	346060606060			45105070
14774	676767676767	BCD XXXXXX000011 FIXCON TA	BLE EXCEEDED. MORE THAN 100 DIFF	4F1D5070 E4F1D5080

14775	00000000101		•			
14776	606060606060					
14777	263167234645					
15000	606321224325			•		
15001	602567232525					
15002	242524336044					
15003	465125606330			•		
15004	214560010000					
15005	602431262625					
15006	512545636026	BCD	RENT FIXED POINT	CONSTANTS IN THI	S PROGRAM. (SIGN N	01 CONSID4F105090
15007			•			
15010						
15011						
15012						•
15013						
15014						
15015						
15016			-			
15017			•			
15020		BCD	1ERED)			4F1D5100
17020	233123243700					4F1D5110
15021	676767676767	BCD	XXXXXX001635	MORE THAN SIX C	HARACTERS IN SOME	SYMBOL. 4F1D5120
15021	• • • • • • • • • • • • • • • • • • • •					
15022				•		
15024					·	
15025						
15026						· ·
15027						
15030				:		
15031						
15032	224643336060		•			4F1D5130
		BCD	XXXXXX001643	TILEGAL PUNCTUA	TION IN THIS STATE	MENT. 4F1D5140
15033			***************************************	income in the contract of the		
15034						,
15035						
15036						•
15037						
15040						
15041						
15042						
15043						
15044	633360606060					4F1D5150
			XXXXXX002034	MACHINE FRROR.	CAS CONTRADICTS PR	EVIOUS TL4F1D5160
15045		BCD	*********	PIACHTIEL LINGING	eno sommoro, m	
15046					•	
15047						
15050						
15051						
15052	513360232162					
15053	602346456351					
15054	212431236362	•				
15055	604751256531				·	
15056	466462606343					4F1D5170
15057	503360606060	BCD	10.	•		45 103 110

	43434343434			4F1D5180
15060	676767676767	BCD	XXXXXX002062	REPEATED CHECK SUM ERROR IN READING DRUM 34F1D5190
15061	000002000602			
15062	606060606060			
15063	512547252163			
15064	252460 233025			
15065	234260626444			
15066	602551514651			
15067	603145605125			
15070	212431452760			
15071	245164446093			
15072	336060606060	BCD	1.	4F1D5200
7 - 7 - 7				4F1D5210
15073	676767676767	BCD	XXXXXX002266	MACHINE ERROR. INDEX FAILURE. 4F1D5220
15074	000002020606			
15075	606060606060			
15076	442123303145			
15077	256025515146			
15100	513360314524			
15101	256760262131			
15102	436451253360			
15103	606060606060			
15104	606060606060			45105000
15105	(7/7/7/7/7/7	0.00	VVVVVVAA2422	4F1D5230
15105	6767676767	BCD	XXXXXX002433	REPEATED FAILURE IN READING STATE C FROM D4F1D5240
15106	000002040303			
15107	606060606060			
15110	512547252163			
15111	252460262131			
15112	436451256031			
15113	456051252124			
15114	314527606263			
15115	216325602360			
15116	265146446024			
15117	516444600433	BCD	2RUM 4.	4F1D5250
15120	606060606060			
			•	4F1D5260
15121	676767676767	BCD	XXXXXX002434	REPEATED FAILURE IN READING STATE B FROM D4F1D5270
15122	000002040304			
15123	606060606060			
15124	512547252163			
15125	252460262131			
15126	436451256031			
15127	456051252124			
15130	314527606263			
15131	216325602260			
15132	265146446024			
15133	516444600333	BCD	2RUM 3.	4F1D5280
15134	606060606060	300		11 200
				4F1D5290
15135	676767676767	BCD	XXXXXX002435	REPEATED FAILURE IN READING STATE D FROM D4F1D5300
15136	000002040305	545		The second of th
15137	606060606060			
15140	512547252163			
27170	746741E3E103			

	050440040101							
15141	252460262131		*	•				
15142	436451256031		•					
15143	456051252124							
15144	314527606263							
15145	216325602460							
	265146446024							
15146		200	2DIM 2					4F1D5310
15147	516444600233	BCD	2RUM 2.					
15150	606060606060						,	A E 1 D E 0 2 O
			•					4F1D5320
15151	676767676767	BCD	XXXXXX002436	REPEATED FA	VILURE IN	READING S	TATE A FROM	D4F1D5330
15152	000002040306	• • • •						
15153	606060606060							
15154	512547252163							
15155	252460262131							
15156	436451256031							
15157	456051252124							
15160	314527606263							
						· · · · · · · · · · · · · · · · · · ·		
15161	216325602160							
15162	265146446024							4F1D5340
15163	516444600133	BCD	2RUM 1.				•	47103340
15164	606060606060							
								4F1D5350
16146	676767676767	BCD	XXXXXX002523	MACHINE ERR	OR. INDEX	FAILURE.		4F1D5360
15165		500	AMMANOULJEJ				- · ·	
15166	000002050203							
15167	606060606060							
15170	442123303145							
15171	256025515146							
15172	513360314524			•				
				.*				•
15173	256760262131							
15174	436451253360							
15175	606060606060		**					
15176	606060606060							
	:	•	• *					4F1D5370
15177	676767676767	BCD	XXXXXX002565	REPEATED CH	IECK SUM E	RROR IN RE	ADING TABLE	54F1D5380
	000002050605					٠.		
15200							•	, I
15201	606060606060							
15202	512547252163				•			
15203	252460233025					•		
15204	234260626444							•
15205	602551514651							
15206	603145605125			٠.				
						•		•
15207	212431452760							
15210	632122432562							4F1D5390
15211	265146446024	BCD	4FROM DRUM 2, 3 OR	4.				47103390
15212	516444600273							
15213	600360465160							
	043360606060					٠.		
15214	04220000000							4F1D5400
			VVVVVAA3537	NON-MUMED TO	CHARACTE	D TN NIIMED	IC FIELD OR	
15215	6767676767	BCD	XXXXXX002577	NON-NUMERIC	CHARACIE	K TH NOMER	IC FIELD OR	41.103410
15216	000002050707							
15217	606060606060							
	454645404564		•					
15220								
15221	442551312360							
15222	233021512123							

			•		
15223	632551603145				
15224					
15225	312360263125				
15226	432460465160			•	
15227	•	BCD	8POSSIBLE MISSIN	G PUNCTUATION BETWEEN FIELDS.	4F1D5420
15230					
15231					
15232	644523636421				•
15233	633146456022				•
15234	256366252545			•	
15235	602631254324				
15236	623360606060				
					4F1D5430
15237	676767676767	BCD	XXXXXX002656	A SUBSCRIPT IS NOT A FIXED POINT VARIABL	.E•4F1D5440
15240	000002060506				
15241	606060606060				
15242	216062642262				
15243	235131476360				
15244	316260454663				
15245	602160263167		•		1.7
15246	252460474631				
15247	456360652151				
15250	312122432533				
,•				•	4F1D5450
15251	6767676767	BCD	XXXXXX002666	A SUBSCRIPT HAS A DOUBLE MULTIPLIER.	4F1D5460
15252	000002060606				
15253	606060606060				
15254	216062642262				
15255	235131476360				
15256	302162602160				
15257	244664224325				
15260	604464436331				
15261	474331255133				
15262	606060606060				
				·	4F1D5470
15263	676767676767	BCD	XXXXXX002673	A SUBSCRIPT MULTIPLIER IS NOT A CONSTANT	• 4F1D5480
15264	000002060703				
15265	606060606060			· ·	
15266	216062642262				
15267	235131476360				
15270	446443633147			•	
15271	433125516031		•		
15272	626045466360			•	
15273	216023464562				
15274	632145633360				
					4F1D5490
15275	676767676767	BCD	XXXXXX002720	MORE THAN SIX CHARACTERS IN A SYMBOL WITH	114F1D5500
15276	000002070200				
15277	606060606060				
15300	444651256063				
15301	302145606231				
15302	676023302151				
15303	212363255162				
15304	603145602160				

	15305	627044224643	•			
	15306	606631633031				
	15307	456021606264	BC	D 8N A SUBSCRIPT O	OR POSSIBLE MISSING PUNCTUATION.	4F1D5510
	15310	226223513147	•			
	15311	636046516047				
	15312	466262312243				
	15313					
		256044316262				
	15314	314527604764				
	15315	452363642163				
	15316	314645336060				4 F105 F20
3						4F1D5520
	15317	676767676767	BC	D XXXXXX002722	THERE IS AN ILLEGAL CHARACTER IN SOME S	50854F105 53 0
	15320	000002070202				
	15321	606060606060		. •		
	15322	633025 5 12560		•		
	15323	316260214560		-		
	15324	314343252721				
	15325	436023302151				
	15326	212363255160				
	15327	314560624644				•
	15330	256062642262				
•	15331	622351314763	BCI	D 2SCRIPT.		4F1D5540
	15332	336060606060		200.00.10		
Ξť,	19336	3360606060				4F1D5550
	15000	676767676767	. 00	D 9XXXXXX002741	A SUBSCRIPT HAS A DOUBLE ADDEND.	4F1D5560
	15333		DC.	U YAAAAAAUU2142	M 3003CKIFF HMS M DOUBLE MODERNA	41 102200
	15334	000002070401	,			
	15335	606060606060				
	15336	216062642262	*			
	15337	235131476360				
	15340	302162602160				
	15341	244664224325				
	15342	602124242545				
	15343	243360606060				
						4F1D5570
,	15344	676767676767	BCI	D XXXXXX002744	A SUBSCRIPT IS NOT A FIXED POINT VARIAB	LE.4F1D5580
	15345	000002070404				
	15346	606060606060				
	15347	216062642262				
	15350	235131476360				
	15351	316260454663				
	15352	602160263167				
	15353	252460474631				
	15354	456360652151				
	15355	312122432533				
			4			4F1D5590
	35254	676767676767	вст	XXXXXX002764	A SUBSCRIPT IS NOT A FIXED POINT VARIABLE	
	15356	676767676767 000002070604	bCI	AAAAAAUULIUT	A concent to het a true total tuitable	
	15357					
	15360	606060606060				
	15361	216062642262			•	• • .
	15362	235131476360				
. 1	15363	316260454663				v 1
	15364	602160263167				
	15365	252460474631				and the second second
_	15366	456360652151			المتسيس فالمنافق المناسبي فالمناف المعافل والمناف المناف المناف المناف المناف المناف المناف المناف المناف المناف	
					· · · · · · · · · · · · · · · · · · ·	,

	15367	312122432533				45106410
			BCD	XXXXXX003023	A SUBSCRIPT ADDEND IS NOT A CONSTANT	4F1D5610 F• 4F1D5620
	15370	676767676767	BCD	***********	A SUBSCRIPT ADDERD TO NOT A CONSTANT	4, 103020
	15371	000003000203				
	15372	606060606060				
	15373	216062642262				
	15374	235131476360				
	15375	212424254524				•.
	15376	603162604546				
	15377	636021602346	•			
	15400	456263214563				
	15401	336060606060				45105400
	- 5	· · · · · · · · · · · · · · · · · · ·		WWWWWWWAAAAA	TURNE TO A RADENTHECTO MICCING IN CO	4F1D5630
	15402	676767676767	BCD	XXXXXX003026	THERE IS A PARENTHESIS MISSING IN SC	DME SUB4F105640
	15403	000003000206				
	15404	606060606060				
	15405	633025512560			•	
	15406	316260216047				
	15407	215125456330			•	
	15410	256231626044				
	15411	316262314527		•		
	15412	603145606246				
	15413	442560626422				
	15414	622351314763	BCD	4SCRIPT COMBINATIO	ON •	4F1D5650
	15415	602346442231				
	15416	452163314645				
	15417	336060606060				45105440
			250	VVVVVAA2011	A 3 DIMENSIONAL SUBSCRIPTED VARIABLE	4F1D5660
	15420	676767676767	BCD	XXXXXX003064	A 5 DIMENSIONAL SUBSCRIPTED VARIABLE	. 5023 41 103610
	15421	000003000604				
	15422	606060606060				
	15423	216003602431				
	15424	442545623146				
	15425	452143606264				
	15426	226223513147				
	15427	632524606521			·	
	15430	513121224325				
	15431	602446256260		THAT HAVE A DIVENO	ION CTATEMENT ENIDY	4F1D5680
	15432	454663603021	RCD	INUI HAVE A DIMENS	ION STATEMENT ENTRY.	44 TD3000
	15433	652560216024				
		314425456231				
	15435	464560626321				
	15436	632544254563				
	15437	602545635170				
	15440	336060606060				4F1D5690
			BCD	xxxxxx003151	A 2 DIMENSIONAL SUBSCRIPTED VARIABLE	
	15441	676767676767	BCD	VVVVVV0A3131	A S STREETSTORME SOUSCHIFTEN ANNIHOEE	. 5450 41 103100
	15442	000003010501	:			
	15443	606060606060				
	15444	216002602431				
	15445	442545623146				
	15446	452143606264	•			
	15447	226223513147			•	
-	15450	632524606521				

15451 15452 15453 15454	513121224325 602446256260 454663603021 652560216024	BCD 7NOT HAVE A DIMENSION STATEMENT ENTRY.	4F1D5710
15455	314425456231		
15456	464560626321		
15457	632544254563		
	602545635170		
15460			
15461	336060606060		4F1D5720
15462	676767676767	BCD XXXXXX003254 PROGRAM EXPECTS COMMA OR END OF STATEMENT	
15463	000003020504		
15464	606060606060		
15465	475146275121		
15466	446025674725		
15467	236362602346		
15470	444421604651		
15471	602545246046		
15472	266062632163		
15473	254425456333		
15474	676767676767 000003020602	BCD XXXXXX003262 PROGRAM EXPECTS COMMA OR RIGHT PARENTHESIS	4F1D5740 S4F1D5750
15475			
15476	606060606060		
15477	475146275121		
15500	446025674725		
15501	236362602346		
15502	444421604651		
15503	605131273063		
15504	604721512545		
15505	633025623162	000 1	4F1D5760
15506	336060606060	BCD 1.	4F1D5770
15507	676767676767	BCD XXXXXX003270 PROGRAM EXPECTS LEFT PARENTHESIS OR END OF	
15510	000003020700		
15511	606060606060		
15512	475146275121		
15513	446025674725		*
15514	236362604325		
15515	266360472151		
15516	254563302562		
15517	316260465160		
15520	254524604626		
15521	606263216325	BCD 2 STATEMENT.	4F1D5790
15522	442545633360		4F1D5800
15523	676767676767		4F1D5810
15524	000003020702		
15525	606060606060		
15526	442123303145		
	256025515146		
15527			
15530	513360212360 275125216325		
15531			
15532	516063302145		

		•		
15	533 604623632143			
15	534 600707336060			
			•	4F1D5820
15	535 676767676767	BCD 9XXXXXX003274	PROGRAM EXPECTS END OF STATEMENT.	4F1D5830
15	536 0000 03020704			
15	537 606060606060			
15	540 475146275121			
15	541 446025674725			·
	542 236362602545			
	543 246046266062	•		
	544 632163254425			
15:	545 456333606060			4500000
		DCD 04444440000	DOGEDAN ENDESTS A SET DADENTHESIS	4F1D5840
	546 6767676767	BCD 9XXXXXX003300	PROGRAM EXPECTS LEFT PARENTHESIS.	4F1D5850
	547 000003030000			
	5 50 6 06 0 60606060		· · · · · ·	
15:	551 475146275121			
155	552 446025674725			
155	553 236362604325			
155	554 266360472151			
155	555 254563302562		•	
	556 316233606060			
				4F1D5860
159	557 676767676767	BCD 9XXXXXX003304	PROGRAM EXPECTS RIGHT PARENTHESIS.	4F1D5870
	60 000003030004			
-	61 606060606060			
155		•		
	-			
155			,	
	664 236362605131		•	
155				
155				
155	67 623162336060			
				4F1D5880
155		BCD 7XXXXXX003310	PROGRAM EXPECTS COMMA.	4F1D5890
155	71 000003030100			4.4
155	72 606060606060	•		
155	73 475146275121			
155	74 446025674725			*
155	75 236362602346			
155				
				4F1D5900
155	77 6767676767	BCD XXXXXX003314	SYMBOL BEGINS NUMERIC WHICH IS ILLEGAL IN	
156		220 ///////////////////////////////////	The second management and second in	
156				
156				•
156				
156	•			
156				
156				
156	07 603143432527			
156	10 214360314560			
156	11 633031626023	BCD 3THIS CONTEXT.		4F1D5920
156				
	13 336060606060			

										*
15614	676767676767	-	BČD	XXXXXX003316	SYMBOL	BEGINS	NON-NUMER	IC WHICH	I IS III	4F1D593(LEGAL4F1D594(
15615	000003030106		500	AAAAAAAGGG	J 1 7107 L	244110		,,,,,,		
				•						
15616	606060606060									
15617	627044224643									
15620	602225273145						* . · · · · · · · ·			
15621	626045464540				,			•		,
15622	456444255131									
15623	236066303123									•
15624	306031626031									
15625	434325272143									
15626	603145606330		BCD	3 IN THIS CONTEXT						4F1D5950
15627	316260234645									
15630	632567633360				.•					
1 1 -										4F1D5960
				STATE A						4F1D5970
										4F1D5980
15631	676767676767		BCD	XXXXXX003542	THE CH	ARACTER	\$ OCCUR	S IN THI	S STATE	MENT4F1D5990
15632	000003050402									
15633	606060606060									
15634	633025602330							•		
15635	215121236325									
15636	516060536060									
15637	462323645162	:				•		-		
15640	603145606330									
15641	316260626321									
15642	632544254563									
15643	606246442566		BCD	8 SOMEWHERE OTHER	THAN IN	HOLLERI	TH TEXT.			4F1D6000
15644	302551256046									
15645	633025516063									
15646	302145603145					•	•			
15647	603046434325									
15650	513163306063									• • • • • • • • • • • • • • • • • • • •
15651	256763336060				•					
15652	606060606060									
17072	00000000000									4F1D6010
15653	676767676767	*	BCD	XXXXXX003545	THE TH	LEGAL CH	ARACTER	: £ 8~2	PUNCHI	00047104028
15654	000003050405		568							
	606060606060									
15656	633025603143									
15657	432527214360									
	233021512123									
15660										14
15661	632551607260									
15662	607400401040									
15663	026047644523							100		
15664	303460462323		BCD.	AUDO THE THIC CTATE	MENT.					4F ID6030
15665	645162603145		PCD	AURS IN THIS STATE	MEN I					41: 100030
15666	606330316260									
15667	626321632544									
15670	254563336060									45.5.5.5
							1016men -			4F1D6040
15671	676767676767		BCD	XXXXXX003550	THE ILL	EGAL CH	ARACTER -0	(11-8-2	PUNCH	0 4F1D6050
15672	000003050500									
15673	606060606060					•		7.1		

	the property of the second				•		
15674	633025603143						
15675		• .		• .			
15676			•				
15677							
15700				,			
15701					·		
15702							
15703			BCD 4CCURS IN THIS	STATEMENT.			4F1D6060
15704							250000
15705	626062632163						
15706	254425456333						
				*			4F1D6070
15707	6767676767		BCD XXXXXX003553	THE ILLEGAL	L CHARACTER +0	12-8-2 PUNCH) (0 4F1D6080
15710				,			
15711							
15712							
15713							
15714	233021512123						
15715	632551602000						
15716	607401024010				•		
15717				4.4			
15720	233034604660 232364516260		DCD ACCURE IN THE	CTATEMENT			45.04.00
15721 15722	314560633031		BCD 4CCURS IN THIS	STATEMENT			4F1D6090
15723	626062632163						
15724	254425456333						
22.24	271727770335		v.				4F1D6100
15725	676767676767		BCD XXXXXXX003556	THE ILLEGAL	CHARACTER - 18	-4 PUNCH) OCCUR	
15726	000003050506					T TOMEST CCCON	
15727	606060606060			·			
15730	633025603143			,			*
15731	432527214360			,			
15732	233021512123						
15733	632551604060						
15734	741040046047						
15735	644523303460						
15736	462323645160			The same		10 July 10 Miles	1 10
15737	626031456063		BCD 45 IN THIS STAT	EMENT.			4F1D6120
15740	303162606263						
15741	216325442545						
15742	633360606060						
15740	474747474747		BCD XXXXXXX003561	THE NOW DOD	CHARACTER ANIA	10 446 0554 05	4F1D6130
15743 15744	676767676767 000003050601		BCD XXXXXXX003561	THE NON BCD	CHARACTER 0010	LO HAS BEEN KE	4F1D6140
	606060606060						
15746	633025604546						
	456022232460						1
	233021512123						
15751							
	010001006030						
15753							
	456051256060						
15755			BCD SAD FROM TAPE W	HILE PROCESSING	THIS STATEMENT		4F1D6150

		/A//3A31433E							
	15757	606630314325							
	15760	604751462325							
-	15761	626231452760							
	15762	633031626062							
	15763	632163254425							
	15764	456333606060							45104140
	22104	12000	•						4F1D6160
	15765	676767676767	RCD	8XXXXXX003615	TOO HANY RIGHT	PARENTHESIS.			4F1D6170
				••••					
	15766	000003060105							
	15767	606060606060							
	15770	634646604421							
	15771	457060513127							
	15772	306360472151							
	15773	254563302562							
	15774	316233606060				•			4F1D6180
	15775	676767676767	BCD	XXXXXX003624	NON-ARITHMETIC	STATEMENT OF	A FYPE	MHICH	146100130
	15776	000003060204							
	15777	606060606060							
		454645402151			•				
	16000								
	16001	316330442563							
	16002	312360626321				-			
	16003	632544254563							
	16004	604626602160							
	16005	637047256066							
	16006	303123306031							4F1D6200
	16007	626045466360	BCD	45 NOT IN DICTIONA	RY•				41 100200
	16010	314560243123							
	16011	633146452151							
									45.040.0
	16012	703360606060							4F1D6210
	16012	703360606060	BCD	XXXXXX004055	TOO FEW RIGHT F	PARENTHESIS.			4F1D6210 4F1D6220
	16012	703360606060 676767676767	BCD	XXXXXX004055	TOO FEW RIGHT	PARENTHESIS.			
	16012 16013 16014	703360606060 676767676767 000004000505	BCD	XXXXXX004055	TOO FEW RIGHT F	PARENTHESIS.			
	16012 16013 16014 16015	703360606060 676767676767 000004000505 606060606060	BCD	XXXXXX004055	TOO FEW RIGHT F	PARENTHESIS.			
	16012 16013 16014 16015 16016	703360606060 676767676767 000004000505 606060606060 634646602625	BCD	XXXXXX004055	TOO FEW RIGHT F	PARENTHESIS.			
	16012 16013 16014 16015 16016 16017	703360606060 676767676767 000004000505 606060606060 634646602625 666051312730	BCD	XXXXXX004055	TOO FEW RIGHT F	PARENTHESIS.			
	16012 16013 16014 16015 16016	703360606060 676767676767 000004000505 606060606060 634646602625 666051312730 636047215125	BCD	XXXXXX004055	TOO FEW RIGHT F	PARENTHESIS.			
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	16012 16013 16014 16015 16016 16017 16020	703360606060 676767676767 000004000505 606060606060 634646602625 666051312730 636047215125	8CD	XXXXXX004055	TOO FEW RIGHT F	PARENTHESIS.			
	16012 16013 16014 16015 16016 16017 16020 16021	703360606060 676767676767 000004000505 606060606060 634646602625 666051312730 636047215125 456330256231	8CD	XXXXXX004055	TOO FEW RIGHT F	PARENTHESIS.			
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	16012 16013 16014 16015 16016 16017 16020 16021 16022	703360606060 676767676767 000004000505 606060606060 634646602625 666051312730 636047215125 456330256231 623360606060	8CD	XXXXXX004055					4F1D6220
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	16012 16013 16014 16015 16016 16017 16020 16021 16023 16024	703360606060 676767676767 000004000505 606060606060 634646602625 666051312730 636047215125 456330256231 623360606060 60606060606060 60606060606060							4F1D6220
	16012 16013 16014 16015 16016 16017 16020 16021 16023 16024	703360606060 676767676767 000004000505 606060606060 634646602625 666051312730 636047215125 456330256231 623360606060 606060606060 606060606060 67676767							4F1D6220
	16012 16013 16014 16015 16016 16017 16020 16021 16022 16023 16024	703360606060 676767676767 000004000505 606060606060 634646602625 666051312730 636047215125 456330256231 62336060660 606060606060 606060606060 67676767							4F1D6220
	16012 16013 16014 16015 16016 16017 16020 16021 16022 16023 16024 16025 16026 16027 16030	703360606060 676767676767 000004000505 606060606060 634646602625 666051312730 636047215125 456330256231 623360606060 60606060606060 60606060606060							4F1D6220
	16012 16013 16014 16015 16016 16017 16020 16021 16022 16023 16024 16025 16026 16027 16030 16031	703360606060 676767676767 000004000505 606060606060 634646602625 666051312730 636047215125 456330256231 62336060060 606060606060 606060606060 676767676767 000004020205 606060606060 475146275121 446025674725							4F1D6220
	16012 16013 16014 16015 16016 16017 16020 16021 16022 16023 16024 16025 16026 16027 16030	703360606060 676767676767 000004000505 606060606060 634646602625 666051312730 636047215125 456330256231 623360606060 606060606060 676767676767 000004020205 606060606060 475146275121 446025674725 236362606346							4F1D6220
	16012 16013 16014 16015 16016 16017 16020 16021 16022 16023 16024 16025 16026 16027 16030 16031	703360606060 676767676767 000004000505 606060606060 634646602625 666051312730 636047215125 456330256231 62336060060 606060606060 606060606060 676767676767 000004020205 606060606060 475146275121 446025674725							4F1D6220
	16012 16013 16014 16015 16016 16017 16020 16021 16022 16023 16024 16025 16026 16027 16030 16031 16032	703360606060 676767676767 000004000505 606060606060 634646602625 666051312730 636047215125 456330256231 623360606060 606060606060 676767676767 000004020205 6060606060 475146275121 446025674725 236362606346 603360606060	BCD	7XXXXXX004225	PROGRAM EXPECTS	s to .	FAREN P	REVIOUS	4F1D6230 4F1D6240 4F1D6240
	16012 16013 16014 16015 16016 16017 16020 16021 16022 16023 16024 16025 16026 16027 16030 16031 16032	703360606060 676767676767 000004000505 606060606060 634646602625 666051312730 636047215125 456330256231 623360606060 606060606060 676767676767 000004020205 606060606060 475146275121 446025674725 236362606346				s to .	EARED P	REV10US	4F1D6230 4F1D6240 4F1D6240
	16012 16013 16014 16015 16016 16017 16020 16021 16022 16023 16024 16025 16027 16030 16031 16032 16033	703360606060 676767676767 000004000505 606060606060 634646602625 666051312730 636047215125 456330256231 623360606060 606060606060 676767676767 000004020205 6060606060 475146275121 446025674725 236362606346 603360606060	BCD	7XXXXXX004225	PROGRAM EXPECTS	s to .	EARED P	REVIOUS	4F1D6230 4F1D6240 4F1D6240
	16012 16013 16014 16015 16016 16017 16020 16021 16022 16023 16024 16025 16030 16031 16032 16033	703360606060 676767676767 000004000505 606060606060 634646602625 666051312730 636047215125 456330256231 623360606060 606060606060 676767676767 000004020205 606060606060 475146275121 446025674725 236362606346 603360606060	BCD	7XXXXXX004225	PROGRAM EXPECTS	s to .	EARED P	REVIOUS	4F1D6230 4F1D6240 4F1D6240
	16012 16013 16014 16015 16016 16017 16020 16021 16023 16024 16025 16026 16030 16031 16032 16033	703360606060 676767676767 000004000505 606060606060 634646602625 666051312730 636047215125 456330256231 623360606060 606060606060 676767676767 000004020205 606060606060 475146275121 446025674725 236362606346 603360606060	BCD	7XXXXXX004225	PROGRAM EXPECTS	s to .	EARED P	REV10US	4F1D6230 4F1D6240 4F1D6240

		The state of the s								
	16040	212243256031						,		
	16041	456063303162								
	16042	604331626360								
	16043	214747252151								
	16044	252460475125								
	16045	653146646243	0.	cn	EV THE A DIMENSION	CTATEMENT				45304030
	16046	706031456021	. 8	CD :	BY IN A DIMENSION	STATEMENT				4F1D6270
	16047 16050	602431442545								
	16051	623146456062 632163254425								
	16052	456333606060								
	10072	476333500000								4F1D6280
	16053	676767676767	B	CD	XXXXXX004323	MORE THAN 3	DIMENSI	ONS OR MISSING	RIGHT	
	16054		•		7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.	HOILE HIMIT 5	D1.1101.			, N41 150270
	16055	606060606060								
	16056	444651256063								
	16057	302145600360								
	16060	243144254562								
	16061	314645626046								
	16062	516044316262								
	16063	314527605131								
	16064	273063604721						•		
	16065	512545633025	Be	CD 2	RENTHESIS.					4F1D6300
	16066	623162336060								
		·	_							4F1D6310
	16067	676767676767	В	CD	XXXXXX004444	A SUBROUTINE	OR FUNC	CTION STATEMEN	T APPEA	RS4F1D6320
	16070	000004040404					•	•		
	16071	606060606060								
	16072	216062642251				, ,				
	16073	466463314525								
	16074 16075	604651602664 452363314645								
	16076	606263216325					,			
	16077	442545636021								
	16100	474725215162								
	16101	432163255160	ВС	CD	LATER THAN THE FI	RST STATEMENT	OF THE	PROGRAMA PROB	ABLY AT	E4F1D6330
	16102	633021456063					• • • • • • • • • • • • • • • • • • • •			
	16103	302560263151								
	16104	626360626321								
	16105	632544254563			*					
	16106	604626606330								
	16107	256047514627				:				
	16110	512144336047								
,	16111	514622212243								
	16112	706021636325								
	16113	444763606060	ВС	D	MPT TO BATCH CO	MPILE WITHOUT	SENSE S	WITCH 6 DOWN.		4F1D6340
	16114	634660222163				,				
	16115	233060234644								
	16116	473143256066		,						
	16117	316330466463								
	16120	606225456225						· .		
	16121	606266316323								
	16122	306006602446							*	
	10163	664533606060								

16124	606060606060				.,			4F1D6350
16125	676767676767	BCD	XXXXXX004544	A RETURN	STATEMENT	HAS OCCURR	ED IN A PRO	
16126	000004050404			.*				
16127	606060606060						• .	
16130	216051256364							
16131	514560626321						•	
16132	632544254563				100	y**	4.5	
16133	603021626046							
16134	232364515125							
16135	246031456021							
16136	604751462751							
16137		BCD	AM NOT DEFINED	TO BE A SUBR	OUTINE OR	FUNCTION S	UBPROGRAM.	4F1D6370
16140	602425263145							
16141	252460634660	•						
16142	222560216062							
16143	642251466463							·
16144	314525604651							
16145	602664452363							
16146	314645606264						;	
16147	224751462751	•						
	214433606060					•		
	V 7 4/4 55 6 8 7							4F1D6380
16151	676767676767	BCD	XXXXXX004663	SENSE SWI	TCH SETTIN	IG OTHER THA	N 0-1 OR 2	
16152	000004060603						0,2 0,, 2	4, 100370
16153	606060606060							
16154	622545622560							
16155	626631632330						~	and the second
16156	606225636331							
16157	452760466330		•					
16160	255160633021							•
16161	456000730160				• •			
16162	465160026060							
16163	465160444651	8CD	TOR MORE THAN 5	SETTINGS OR I	RONG FORM	AT.		4F1D6400
16164	256063302145							4. 200400
16165	600560622563					•		
16166	633145276260							
16167	465160665146							
16170	452760264651							
16171	442163336060						-	
, 55515				•				4F1D6410
16172	676767676767	BCD	8XXXXXX004705	VARIABLE F	CRMAT NUM	BER.		4F1D6420
16173	000004070005							
16174	606060606060							
16175	652151312122				•			
16176	432560264651							
16177	442163604564							
16200	442225513360		,					
16201	606060606060	•						
								4F1D6430
16202	676767676767	BCD	6XXXXXX004707	NO FORMAT	NUMBER.	1.0		4F1D6440
16203	000004070007	505		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				-1 400-10
16204	606060606060			: .				
16205	454660264651							
	723900207021	-						

16206 16207	442163604564 442225513360			
10201	442223313300			4F1D6450
16210	676767676767	BCD XXXXXX005170	MORE THAN SIX CHARACTERS IN SOME SYMBOL.	4F1D6460
16211	000005010700			
16212	606060606060			
16213	444651256063	,		
16214	302145606231			
16215	676023302151			
16216	212363255162			•
16217	603145606246			
16220	442560627044			
16221	224643336060	•		4F1D4470
16222	676767676767	BCD XXXXXX005200	ILLEGAL CHARACTER IN THIS LIST.	4F1D6470 4F1D6480
16223	000005020000	Deb Ammande Se de	1220/12 0///////	
16224	606060606060			
16225	314343252721	•		
16226	436023302151			
16227	212363255160			
16230				
16231				
16232	336060606060			
16233				
		200 20000000000000000000000000000000000	MODE THAN THREE LEVELS IN THIS LIST INSCI	4F1D6490
16234	676767676767	BCD XXXXXX005260	MORE THAN THREE LEVELS IN THIS LIST (NEST	E41100000
16235	000005020600			
16236	606060606060	,		
16237	444651256063			
16240	302145606330			
16241	512525604325			
16242	652543626031			
16243	456063303162			
16244	604331626360	•		
16245	744525626325			45104510
16246	246047215125	BCD 3D PARENTHESIS).	•	4F1D6510
16247	456330256231			
16250	623433606060	•		4F1D6520
16251	6767676767	BCD XXXXXX005263	ATTEMPT TO SPECIFY SUBSCRIPT RANGE WITHO	
16252	000005020603			
16253	606060606060			
16254	216363254447			
16255	636063466062			
16256	472523312670			
16257	606264226223			
16260	513147636051			
16261	214527256066			
16262	316330466060	•		
16263	646360646225	BCD 4UT USE OF PARENT	THESIS.	4F1D6540
16264	604626604721			
16265	512545633025			
16266	623162336060			
		·	• • • • • • • • • • • • • • • • • • • •	4F1D6550

16267 16270 16271	000005030005	80	CD XXXXXX005305	INCOMPLETE STATEMENT OR INCOMPLETE CLOSU	RE4F1D6560
16272	314523464447				
16273	432563256062				
16274					
16275					
16276					
16277					
16300					
16301	7.	- 80	D 30F PARENTHESIS.		4F1D6570
16302					
16303	316233606060				
14004	434343434343	5.4			4F1D6580
16304		BG	D XXXXXX005306	ILLEGAL CHARACTER IN DO SPECIFICATION IN	L4F1D6590
16305			·		
16306 16307					
16310					
16311					
16312	,				
16313		•			•
16314					· . •
16315	: +				
16316		B.C	D 11ST.		4F1D6600
. 10310	310203330000	5	11310		4F1D6610
16317	676767676767	· 80	D 8XXXXXX005401	TOO MANY RIGHT PARENTHESIS.	4F1D6620
16320	000005040001				41 200000
16321	606060606060				
16322	634646604421				
16323	457060513127				
16324					
16325	2545 63302562				
16326	316233606060				
	43434343434				4F1D6630
16327	676767676767	ВС	D 6XXXXXX005416	CONSTANT IN LIST.	4F1D6640
16330	000005040106				•
16331 16332	606060606060 234645626321				
16333	456360314560			The control of the state of the	
16334	433162633360				
10334	433102033300				4F1D6650
16335	676767676767	RC	D 8XXXXXX005552	TOO MANY LEFT PARENTHESIS.	4F1D6660
16336	000005050502		D DAAAAAAOO JJJE	TOO PIANT BELL FAREITHESIS	4710000
16337					
16340	634646604421				
16341	457060432526				
16342	636047215125	-			
16343	456330256231				
16344	623360606060				
					4F1D6670
16345	676767676767	BC	D XXXXXX005607	ILLEGAL CHARACTER IN THIS STATEMENT.	4F1D6680
16346	000005060007				
16347	606060606060	-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	والمنافية والمنافية والمتعارض والمتع	

16350	314343252721		•			
16351	436023302151			•		
16352	212363255160					
16353	314560633031					
16354	626062632163			•		
16355	254425456333					
16356	606060606060				•	
						4F1D6690
16357	676767676767	BCD	XXXXXX005715	A TAPE CHECK HAS	OCCURRED THREE TI	MES IN A4F1D6700
16360	000005070105	_				
16361	606060606060					
16362	216063214725					
16363						
	602330252342				•	
16364	603021626046				-	
16365	232364515125					
16366	246063305125					
16367	256063314425					
16370	626031456021					
16371	636325444763	BCD	TTEMPTING TO REA	ND A RECORD OF THE S	SOURCE PROGRAM FRO	M TAPE 24F1D6710
16372	314527606346			•		
16373	605125212460					
16374	216051252346					
16375	512460462660					
16376	633025606246					
16377	645123256047					
16400	514627512144					
16401	602651464460					
16402	632147256002			•		
16403	336021636325	BCD	. ATTEMPT TO REA	D ABANDONED. THE ST	ATEMENT INVOLVED	IS NOT P4F1D6720
16404	444763606346					
16405	605125212460					
16406	212221452446					
16407	452524336063					
16410	302560626321			the second second		
16411	632544254563					
16412	603145654643					
16413	652524603162					
16414	604546636047					
16415	514623256262	BCD	DOCESSED. IE THE	RECORD WAS NOT THE	LAST BECORD OF A	STATEMENETING 720
16416	252433603126	BCD	ROCESSED II IIIC	RECORD WAS NOT THE	EAST RECORD OF A	31A1EME#1 100130
16417	606330256051					
					•	•
16420	252346512460					
16421	662162604546					
16422	636063302560					
16423	432162636051		ž			
16424	252346512460					•
16425	462660216062			·		
16426	632163254425	200	NT THE EN LOUITE	DIACHOCTIC COMPTE	TE MEANING TEE AN	D WAS CASTO TAG
16427	456360633025	BCD	NI THE POLLOWING	DIAGNOSTIC COMMENT	15 MEANINGLESS AN	WAS C4F106/40
16430	602646434346					
16431	663145276024		* .			
16432	312127454662					
16433	633123602346					
16434	444425456360					

16435	316260442521					
16436	453145274325					
16437	626260214524					. •
16440	606621626023					
	216462252460	BCD /	AUSED BY AN ATTI	EMPT TO PROCESS A PARTIAL STATEMEN	1T•	4F1D6750
16441		500	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
16442	227060214560					
16443	216363254447					
16444	636063466047					
16445	514623256262					
16446	602160472151					
16447	633121436062					·
-	632163254425					
16450					•	
16451	456333606060	•			•	·
16452	606060606060			· · · · · · · · · · · · · · · · · · ·		4F1D6760
				ILLEGAL USE OF FLOATING POINT V	ARTABLE.	4F1D6770
16453	67676 7676767	BCD	XXXXXX006042	ILLEGAL USE OF PLONTING FORMS	M	
16454	000006000402					
16455	606060606060					
16456	314343252721			,		•
16457	436064622560	•	•			
16460	462660264346					
16461	216331452760					
16462	474631456360					
16463	652151312122					
16464	432533606060					4F1D6780
						4F1D6790
		S'	TATE B			
			•	•		4F1D6800
16465	676767676767	BCD 83	XXXXXX003527	TOO MANY CHARACTERS IN SYMBOL.		4F1D6810
	000003050207				•	
16466	***************************************					
16467	606060606060				• .	
16470	634646604421			•		
16471	457060233021	-		•		
16472	512123632551					
16473	626031456062		,			
16474	704422464333					45104020
70-21-4						4F1D6820
14475	676767676767	BCD 82	XXXXXX003602	ILLEGAL USE OF . CHARACTER.		4F1D6830
16475	000003060002	500 0		•		
16476						
16477	606060606060					_
16500	314343252721					
16501	436064622560					
16502	462660603360			•		
16503	602330215121					
16504	236325513360					4E104940
***						4F1D6840
14505	676767676767	BCD 7:	XXXXXX003613	ARGREG SIZE EXCEEDED.		4F1D6850
16505	• . • • • • • •	500 11				
16506	000003060103					
16507	606060606060					
16510	215127512527					
16511	606231712560					
16512	256723252524	-				
16513	252433606060					45404040
10713			The second secon	المعامل والمنافذ والمناف والمعامل والمعامل والمستثن		4F1D6860

	16514	676767676767	BCD	XXXXXX003615	ILLEGAL USE OF HOLLERITH S	SPECIFICATION.	4F1D6870
	16515	000003060105					
	16516	606060606060					
	16517	314343252721					
	16520	436064622560					
	16521	462660304643					
	16522	432551316330					
-	16523	606247252331					
	16524	263123216331					
	16525	464533606060					
							4F1D6880
	16526	676767676767	BCD	8XXXXXX003654	NON-ZERO LEVEL REDUCTION.		4F1D6890
	16527	000003060504	• • • •				
	16530	606060606060					
	16531	454645407125					
	16532	514660432565					
	16533	254360512524					
	16534	642363314645		•			
						,	
	16535	336060606060					4F1D6900
	14524	474747474747	BCD	8XXXXXX003671	ILLEGAL USE OF = SIGN.		4F1D6910
	16536	676767676767	BCD	97777703911	TELEGAL OSE OF - STORE		41,100310
	16537	000003060701					*
		606060606060					
	16541	314343252721					
	16542	436064622560					
	16543	462660601360.					
	16544	606231274533				•	
	16545	606060606060					45104020
					THE GALLISE OF SIGN.		4F1D6920
	16546	6767676767	RCD	8XXXXXX003724	ILLEGAL USE OF . SIGN.	,	4F1D6930
	16547	000003070204		•			
	16550	606060606060					
	16551	314343252721					
	16552	436064622560					
	16553						
	16554	606231274533					
	16555	606060606060					
							4F1D6940
	16556	6767676767	BCD	XXXXXX004046	THE NUMERIC CONTROL OF A H	OLLERITH TEXT	IS4F106950
	16557	000004000406					
	16560	606060606060					
	16561	633025604564					
	16562	442551312360				•	
	16563	234645635146					
	16564	436046266021					•
	16565	603046434325					
	16566	513163306063				•	
	16567	256763603162					
	16570	432151272551	BCD	9LARGER THAN THE N	UMBER OF CHARACTERS FOLLOWI	NG THE H.	4F1D6960
	16571	606330214560					
	16572	633025604564				•	
	16573	442225516046					
	16574	266023302151					
	16575	212363255162			**		

16576 16577	602646434346 663145276063				
16600					
10000	302300303300		2		AE184070
16601	676767676767	pri	D 8XXXXXX004136	LAMBDA TABLE SIZE EXCEEDED.	4F1D6970
16602	·	, BCI	D 044444444130	LAMBUA TABLE SIZE EXCEEDED	4F1D6980
16603	606060606060				
16604	432144222421				
16605	606321224325				
16606	606231712560				• • • • • • • • • • • • • • • • • • • •
16607	256723252524				
16610	252433606060				
10010	27243300000				4F1D6990
16611	676767676767	RCE	8XXXXXX004140	BETA TABLE SIZE EXCEEDED.	4F1D7000
16612	000004010400		UNNANAOOTITO	DEIN INDEE SIEE ENCEEDED	41101000
16613	606060606060	-			
16614	222563216063				
16615	212243256062				
16616	317125602567				•
16617	232525242524				
16620	336060606060				
					4F1D7010
16621	676767676767	BCD	8XXXXXX004143	ALPHA TABLE SIZE EXCEEDED.	4F1D7020
16622	000004010403				1. 201000
16623	606060606060		-		
16624		-			
16625	632122432560				
16626	623171256025				
16627	672325252425				
16630	243360606060				•
					4F1D7030
16631	6767676767	BCD	XXXXXX004647	FLOATING POINT CONSTANT OUTSIDE RANGE	OF M4F1D7040
16632	000004060407				
16633	606060606060				
16634	264346216331		1		
16635	452760474631				
16636	456360234645		-		
16637	626321456360				
16640	466463623124				
16641					
16642	256046266044				•
16643	212330314525	BCD	2ACHINE.		4F1D7050
16644	336060606060				
•	•		STATE C		4F1D7060
٠.			SIMIE C		4F1D7070
16645	676767676767	BCD	XXXXXX004347	CHECK SUM ERROR IN READING FIXED POINT	4F1D7080
16646	000004030407		TTCTV UNIONAL	CHECK JOH ERROR IN REMUIRO FIXED POINT	CON41. TO 1930
16647	606060606060				4.
	233025234260				
16651	626444602551				
16652	514651603145				
16653	605125212431				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
16654	452760263167				

	•			**			
16655	252460474631						
16656	· · · · · · · · · · · · · · · ·						
16657	626321456360	BC	D 3STANT FROM DRUM	2.			4F1D7100
16660		•					*** 25 . 200
16661							
20002	220						4F1D7110
			STATE D				
			SINIL D				4F1D7120
1///2	474747474747			MIVED EVENESCION			4F1D7130
16662	676767676767	BC	D 6XXXXXX003501	MIXED EXPRESSION.		:	4F1D7140
16663	000003050001				-		
16664	606060606060	•				•	
16665	443167252460						
16666	256747512562					:	
16667	623146453360						
							4F1D7150
16670	676767676767	BCI	0 6XXXXXX003503	MIXED EXPRESSION.			4F1D7160
16671	000003050003		,				25 / 200
16672	606060606060		•				
16673	443167252460						
16674	256747512562						
16675	623146453360						
	434343434343				DC101110 010111		4F1D7170
16676	676767676767	BCI	XXXXXX005233	CHECK SUM ERROR IN	READING SIGMA	TABLE EN	I
16677	000005020303						
16700	606060606060						
16701	233025234260			•			
16702	626444602551	•					
16703	514651603145						
16704	605125212431	· .		•			
16705	452760623127						
16706	442160632122			•			
16707	432560254563						
16710	517060265146	BCD	3RY FROM DRUM 2.	•			
16711	446024516444		3 1	•			
16712	600233606060	-	•	•			
10/12	000233000000					•	
	And the second		LOCATIONS OF STAF	B,C,D CALLS IN 8K SE	CTION ONE.		
			EUCHITONS OF STAL	DICID CALES IN ON SE	CITOR OIL		
16710	676767676767		8XXXXXX006412	TOO MANY CHARACTERS	TH CVHOOL		
16713		BCD	844444000412	100 MANT CHARACTERS	S IN SIMBOLS		
16714	000006040102						
16715	606060606060						
16716	634646604421						•
16717	457060233021						
16720	512123632 551						
16721	626031456062						
16722	704422464333						•
	1.3						
16723	676767676767	BCD	8XXXXXX006465	ILLEGAL USE OF .	CHARACTER.		
16724				•			
16725	606060606060						
16726	314343252721		A company of the comp				
16727	436064622560						
••••	462660603360						
16730							
16731	602330215121						

. 10	6732	236325513360			-	
. 1/	6733	676767676767		BCD	7XXXXXX006476	ARGREG SIZE EXCEEDED.
	6734	000006040706		_		
	6735	606060606060				
	5736	·				
-	6737	606231712560			•	
_	6740	256723252524				
	6741					
. 4	7178.	272473500000	•			
. 3/	6742	676767676767		BCD	XXXXXX006500	ILLEGAL USE OF HOLLERITH SPECIFICATION.
	6743	000006050000				
	5744					
	6745	314343252721				
_	5746	436064622560				
	6747	462660304643	-			
	6750	432551316330	1			
_	6751	606247252331				
		263123216331				
_	6753	464533606060				
1.	6754	676767676767		BCD	8XXXXXX006537	NON-ZERO LEVEL REDUCTION.
7	6755	000006050307		,		
_	6756	606060606060				the large of the control of the cont
	6757	454645407125				
	6760	514660432565				
	6761					
_	6762	642363314645				
_	6763	336060606060				
V . 1						
. 1	6764	676767676767		BCD	8XXXXXX006554	ILLEGAL USE OF = SIGN.
. 1	6765	000006050504	٠.	٠.	-1-1	
1	6766	606060606060				
. 1	6767	314343252721				
. 1	6770	436064622560				
. 1	6771	462660601360			. :	
1	6772	606231274533		•	•	
1	6773	606060606060				
		the second second				ILLEGAL USE OF . SIGN.
_	6774	676767676767		BCD	8XXXXXX006607	ILLEGAL USE OF & STORE
_	6775	000006060007				
_	6776	606060606060				
	6777	314343252721				
	7000	436064622560				
_	7001	462660603360			• • •	
_	7002	606231274533		*		
. 1	7003	606060606060				
_		474747474747		9.55	xxxxxx006731	THE NUMERIC CONTROL OF A HOLLERITH TEXT IS
	7004	676767676767		BCD	VYVVV000013T	THE BAUFUTE CALLINGS AL II HARBERT IN 1841
_	7005	000006070301				
	7006	606060606060				
_	7007	633025604564				
_	7010	442551312360				
1	7011	234645635146				

17012	436046266021				
17013	603046434325				
17014	513163306063				
17015	256763603162				
17016	432151272551	В	CD 9LARGER THAN 1	THE NUMBER OF CHARACTERS FOLLOWING THE H.	
17017	606330214560				
17020	633025604564			No.	
17021	442225516046				
17022	266023302151				
17023	212363255162			·	
17024	602646434346				
17025	663145276063				
17026	302560303360			•	
17027	676767676767	Bo	D 8XXXXXX007021	LAMBDA TABLE SIZE EXCEEDED.	
17030	000007000201	•		ENIDON INDEL GILL ENGLEDED	
17031	606060606060				
17032	432144222421				
17033	606321224325			·	
17034	606231712560				
17035	256723252524				
17036	252433606060				
11030	27247700000				
17037	676767676767	BC	D 8XXXXXX007023	BETA TABLE SIZE EXCEEDED.	
17040	000007000203				
17041	606060606060				
17042	222563216063				
17043	212243256062				
17044	317125602567				
17045	232525242524				
17046	336060606060				
17047	676767676767	ВС	D 8XXXXXX007026	ALPHA TABLE SIZE EXCEEDED.	
17050	000007000206				
17051	606060606060				
17052	214347302160				
17053	632122432560				
17054	623171256025				
17055	672325252425				
17056	243360606060				
17057	676767676767	вс	D XXXXXX007532	FLOATING POINT CONSTANT OUTSIDE RANGE O	F M
17060	000007050302				•
17061	606060606060				
17062	264346216331				
17063	452760474631				
17064	456360234645				
17065	626321456360			,	
17066	466463623124			•	
17067	256051214527				
17070	256046266044				
17071	212330314525	ВС	D ZACHINE.		

	17072	336060606060													
	17073	676767676767	В	CD XXXX	XX010534	CHECK	SUM E	ERROR	IN REAL	ING F	IXED	POINT	CON		
	17074	000100050304													
	17075	606060606060													
,	17076	233025234260													
,	17077	626444602551						*							
	17100	514651603145													
1	17101	605125212431													
	17102	452760263167													
	17103	252460474631													
	17104	456360234645													
	17105	626321456360	R	CD 3STAN1	FROM DRUM	12.									
	17106	265146446024	•	CD JOTAN											
	17107	516444600233													
	11101	310444000233				-						-			
	17110	676767676767	R	CD 6XXXXX	(X011216	MIXED	EXPRE	SSION							,
	17111	000101020106	.			***************************************								*	
	17112	606060606060													
	17113	443167252460													
	17114	256747512562													
									*						
	17115	623146453360													
			•		VA1122A	MIXED.	EVODE	CCTON		,					
	17116	676767676767		CD 6XXXXX	XV11220	MIVED.	CAPRE	331011	•						
	17117	000101020200					-								
	17120	606060606060													
	17121	443167252460												•	
	17122	256747512562													
	17123	623146453360													
	17124	474747474747		. vvvvv	X012750	CHECK	CIIM E	DDOD 1	N READ	ING SI	IGMA :	TARIE	ENT		
	17124	676767676767	D(D XXXXX	X012750	CHECK	JOM L	KROK 1	I NEAD	1110 3	UMA	MOLL	EN		
	17125	000102070500													
	17126	606060606060													
	17127	233025234260													
	17130	626444602551										•			
	17131	514651603145	•												
	17132	605125212431													
	17133	452760623127			* *										
	17134	442160632122													
	17135	432560254563													
	17136	517060265146	BC	U 3KY FK	OM DRUM 2.										
	17137	446024516444													
	17140	600233606060													
			•				٠.								
														1D7200	
									•					107210	
		•		INITAL	IZATION RE	CORD F015	•							107220	
		4.												107230	
	17141	676767676767	ВС	D XXXXX	X000553	FIVE C	ONSEC	JTIVE	FAILURE	ESIN	ATTEM	IPTING	TO4F	107240	
	17142	000000050503													
	17143	606060606060													
	17144	263165256023							•						
	17145	464562252364							٠.						
	17146	633165256026													

17147	213143645125				
17150	626031456021				
17151	636325444763	•			
17152					
17153		. BCD	7 WRITE STATE A OF	SECTION ONE ON DRUM 1.	45107050
		БСБ	I WRITE STATE A OF	SECTION ONE ON DROM IS	4F1D7250
17154					
17155					
17156	622523633146				
17157	456046452560		,		
17160	464560245164				
17161					
					4F1D7260
17162	676767676767	BCD	XXXXXX000560	FIVE CONSECUTIVE FAILURES	
		BCD	*****	FIVE CONSECUTIVE FAILURES	IN ATTEMPTING TOUPTOTETO
17163					
17164				•	
17165	263165256023				
17166	464562252364		•		
17167	633165256026				
17170				•	
17171					
17172					
17173					
17174		BCD	7 WRITE STATE D OF	SECTION ONE ON DRUM 2.	4F1D7280
17175					
17176	602460462660		•		
17177	622523633146				•
17200	456046452560				
17201	464560245164			•	
17202	446002336060			•	
2.202					4E107200
17203	676767676767	BCD	XXXXXX000563	CIVE CONCECUTIVE EATINDED	4F1D7290
		BCD	*****	FIVE CONSECUTIVE FAILURES	IN ATTEMPTING TOUFTD /300
17204	000000050603				
17205	606060606060				
17206	263165256023			· ·	•
17207	4645622523 64				•
17210	633165256026				
17211	213143645125				
17212	626031456021				
17213	636325444763				
17214	314527606346				
17215	606651316325	PCD	T WRITE STATE P OF	SECTION ONE ON DRUM 3.	45107010
		PCD	I WRITE STATE DOF	SECTION ONE ON DROPE 3.	4F1D7310
	606263216325				,
17217	602260462660			•	
17220	622523633146				•
17221	456046452560				
17222	464560245164				^
17223	446003336060				
					4F1D7320
17224	676767676767	BCD	XXXXXX000566	FIVE CONSECUTIVE FAILURES 1	
17225	000000050606	BCU	AAAAAAA OO OO OO	TITE CONSECUTIVE PATEURES 1	ATTEMPTING TOUPTOTES
17226	606060606060			• •	
17227	263165256023				
17230	464562252364			•	·
17231	633165256026			•	

***	00000	END	4F1D7370
–	245 676767676767 246 67 67676767	BCD 2XXXXXXXXXXX	4F1D7350 4F1D7360
	244 446004336060		
	242 456046452560 243 464560245164		
	241 622523633146		
	240 602360462660		
17.	237 606263216325		
17	236 606651316325	BCD 7 WRITE STATE C OF SECTION ONE ON DRUM 4.	4F1D7340
17	235 314527606346		
-	234 636325444763		
	233 626031456021		
17	232 213143645125		

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	O E Á	704	50	DTDAM	MASTER	RECO	RD CARD / 1 PRIME PART A =	F0220000 F1P00010	
	KEP	104	FUI	KIKAN	MMSIEN	KECO	704 FORTRAN MASTER RECORD	CARD / 1 PRIME PART A = F0220000.	F1P00010
				00000	1	ORG			L1500050
00000	0	01146	0	01146		PZE	ORG1PA,ORG1PA		F1P00030
00001				03161		PZE	END1PA-1		F1P00040
00002	•	••••							F1P00050
							THIS IS PART A OF 2 PARTS	OF SECTION ONE PRIME	F1P00060
									F1P00070 F1P00080
					ORG1PA		614	- PERMIT ATOR FOR TESTING DUNG.	F1P00090
01146	0	76100	0	00000		NOP		TO PERMIT STOP FOR TESTING RUNS.	F1P00100
01147	0	7700€	0	00204	PARTA	WEF	4	OCDAN.	F1P00110
							TABLE SAVING PRO	OGRAM ON DRUM L TABLE	F1P00120
							WRITE FIXCON WORD COUNT	ON DROM	F1P00130
01150				00302			194		F1P00140
01151				00414			FXCN1X-3		F1P00150
01152				00021		ARS	17	•	F1P00160
01153				02107		_	WORKCL		F1P00170
01154	-			02107		-	WORKCL WORKCL		F1P00180
01155	O	70000	, 0	02107		CFI	WORKCL WORKCL PROGRAM FOR SAVING COMPAIN BBOX+2	TABLE	F1P00190
01156	. ^	E 2 / 0 C		00637		i XD			F1P00200
01120	-0	22400) 2	01161		TXH	A1PTS•2•0		F1P00210
01127	2	07400	, 2	00004		TSX	DIAG: 4	STOP FOR NO INSTRUCTIONS COMPILED	F1P00220
01160	ŏ	76600	0	00223	A1PTS	WRS	147		F1P00230
01161	ő	53400	1	07730		LXA	L(0) +1	SAVE	F1P00240
01163	ō	70000	ī	00640	AA3PTS	CPY	CIB+1	CIT	F1P00250
01164	ĭ	77777	7 1	01165		TXI	BBOX,2 A1PTS,2,0 DIAG,4 147 L(0),1 C1B,1 AA1PTS,1,-1 AA2PTS,2,1 AA3PTS,2,0 147	BUFFER	F1P00260
01165	1	00001	2	01166	AAIPTS	TXI	AA2PTS+2+1		F1P00270 F1P00280
01166	3	00000	2	01163	AA2PTS	TXH	AA3PTS+2+0		F1P00280
01167	0	77000	0	00223		WEF	147 147 147 L(4) +1 L(0) +4 147 COMP +4	TURN OFF TAPE CHECK INDICATOR AND LIGHTS	F1P00290
						REW	147	TUDN OFF TARE CHECK	F1P00310
01171	-0	76000	0	00012	A5PTS	RII		INDICATOR AND LIGHTS	F1P00320
01172	0	76100	0	00000		NOP	1.444.3	INDICATOR AND LIGHTS	F1P00330
01173					,	LXA.	1.407.4		F1P00340
01174	0	53400	9 4	07730	A 1 / DTC	LAA	147		F1P00350
01175	0	76200		00223	ALAPIS	CDV	COMP . 4	COPY A RECORD OF COMPILED	F1P00360
01176	Ü	70000	, 4	03103				INSTRUCTIONS INTO STORAGE	F1P00370
01177	Ť	02000	. 4	01170		TRA	Alopts	EOF	F1P00380
01200	0	74400		00333		WRS	219	COPY A RECORD OF COMPILED INSTRUCTIONS INTO STORAGE EOF EOR	F1P00390
01201 01202	_0	76000	, 0	00012		RTT	A11PTS 146 CMPREC L(1) CMPREC L(2) +1 L(0) +2 COMP +2	TAPE CHECK ON COUNT EACH COMPAIL RECORD TRANSFER RECORD FROM STORAGE TO TAPE 2	F1P00400
01202	-0	02000		01217		TRA	A11PTS	TAPE CHECK ON	F1P00410
01203	ň	76600		00222		WRS	146		F1P00420
01204				02245		CLA	CMPREC	COUNT EACH	F1P00430
01206	ŏ	40000	ŏ	07731		ADD	L(1)	COMPAIL	F1P00440
01207	ō	60100	0	02245		STO	CMPREC	RECORD	F1P00450
01210	ō	53400	1	07732		LXA	L(2) •1	TO A NOTED DECODE	F1P00460 F1P00470
01211	0	53400	2	07730		LXA	L(0),2	TRANSFER RELUKU	F1P00470
01212	0	70000	2	03163	A9PTS	CPY	COMP • 2	TA TARE 2	F1P00480
01213	1	77777	2	01214		TXI	A7PTS+2+-1	IU TAPE Z	F1P00500
01214	1	00001	4	01215	A7PTS	TXI	A8PTS+4+1		F1P00510
01215	. 3	00000	4	01212	A8PTS	TXH	A9PTS+4+0		F1P00520
01216	0	02000	0	01175			A14PTS	PREPARE TO READ RECORD AGAIN	F1P00530
01217	0	76401	0	00223	AllPTS	BST	147,0,1	LUCIONE TO MEND WEEDING HOUSE	

				T 1 V	A14PTS-1:1:1 TEST FOR 2 TAPE CHECKS.	F1P00540
01220 2 (00001 1	01174			DIAG,4 STOP FOR 5TH READ CHECK	F1P00550
01221 0	07400 4 77000 0	00004	AIADTS			F1P00560
			MIUPIS	WRS		F1P00570
•	76600 0				CMPREC	F1P00580
01224 0	70000 0	02245		CFI	PROGRAM TO SAVE FORSUB TABLE	F1P00590
						F1P00600
01225 -0					BK+1 WFF-1-0 TEST FOR EMPTY TABLE	F1P00610
01226 -3					***	F1P00620
	53400 2				L(0)+2	F1P00630
	70000 2				FORSUB + 2	F1P00640
01231 1	77777 2	01232			A15PTS 929-1	F1P00650
			AISPIS	IXI	A15PTS+1+1+1	F1P00660
	00000 1				A15PTS-2+1+0	F1P00670
01234 0	77000 0	00222	WEF	WEF	PROGRAM FOR SAVING FLOCON TABLE	F1P00680
			5.00		FLCNIX-3.4 (N)	F1P00690
01235 -0			FLOO		FLCNIX-3+4 (N)	F1P00700
01236 -0					0,4	F1P00710
	77100 0			ARS	18	F1P00720
	60100 0				A15PTS+2+-1 A15PTS+1+1+1 A15PTS-2+1+0 146 PROGRAM FOR SAVING FLOCON TABLE FLCNIX-3+4 (N) 0+4 18 FLSIZE LOAD FLSIZE WITH N FLO9+4+0 IS TABLE EMPTY	F1P00730
01241 -3					FL09+4+0 IS TABLE EMPTY	F1P00740
01242 -0					MSK	F1P00750
01243 0	32000 0	00422			FLCNIX-2	F1P00760
	32000 0				FLCNIX-3	
01245 0 9	50000 0	00421			FLCNIX-3 GET NUMBER OF WORDS IN FLOCON INCLUDING CK SUMS	F1P00780
01246 0 4	40200 0	00422		-	FLCNIX-2	
01247 0	62100 0	01256			FLO4 SAVE L	F1P00790 F1P00800
01250 0	53400 2	07735	FL01		L(5) 2 SET TO TRY FIVE TIMES IF CK SUM FAILS	
01251 0	53400 4	01256	FL02	LXA	FL04+4 (L)	F1P00810
01252 0	76200 0	00302		RDR	2	F1P00820
01253 0	46000 0	00422		-	FLCNIX-2	F1P00830 F1P00840
01254 0	70000 4	05453	FL03	CPY	OTA+450,4 COPY FLOCON FROM DRUM	
01255 2	00001 4	01254		TIX	FL03,4,1	F1P00850
01256 -0	75400 0	00000	FL04	PXD	**•0	F1P00860
	53400 4			LXA	FLO4.4 COMPUTE CK SUM OF ENTRIES VERSUS CK SUM OF CK	F1P00870
	53400 1			LXA	L(50)+1 SUMS. TABLE IS OF FORM A CK SUM FOR FIFTY WORDS	F1P00880
	36100 4		FL05	ACL	OTA+450,4 FOLLOWED BY THE FIFTY WORDS	F1P00890
	76000 0	00006		COM		F1P00900
01263 -2				TNX	ERROR • 4 • 1	F1P00910
	36100 4		FL06		OTA+450+4	F1P00920
01265 -2				TNX	FLO7,4,1 FINAL ENRTY , GET OUT OF CK SUM LOOP	F1P00930
	00001 1			TIX	FL06,1,1	F1P00940
	76000 0			COM		F1P00950
	00061 1			TXI	FL05•1•49	F1P00960
	76000 0		FL07	COM		F1P00970
	10000 0			TZE	FLOS TEST CK SUM	F1P00980
	00001 2			TIX	FLO8 TEST CK SUM FLO2,2,1 CK SUM FAILED, TRY AGAIN DIAG,4 CK SUM FAILED FIVE TIMES	F1P00990
V	07400 4				DIAG.4 CK SUM FAILED FIVE TIMES	F1P01000
	53400 4		FL08	LXA	FL04,4 (L)	F1P01010
	76600 0			WTB		F1P01020
	70000 0			CPY	FLSIZE	F1P01030
01300 -3				TXL	PROFOR \$4 *0 IS FLOCON EMPTY	F1P01040
	53400 1				L(50)+1	F1P01050
01302 -2			FL10	_	ERROR, 4,1	F1P01060
01303 0	70000 4	05453	FL11		OTA+450+4	F1P01070
01000				-	·	

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									E1001000
01304	-2	00001	4	01310		TNX	PROFOR,4,1 FIN	ISHED, GET OUT OF LOOP	F1P01080
01305		00001				TIX	FL11,1,1		F1P01090
01306	1	00061	1	01302		TXI	FL10+1+49		F1P01100
01307					ERROR	TSX	DIAG • 4	ISHED, GET OUT OF LOOP INDEX RAN OUT AT CK.	F1P01110
							ROUTINE TO PROC	ESS FORMAT TABLE	F1P01120
01310	0	07400	1	07505	PROFOR	TSX	TAP00+1		F1P01130
01311		00000				HTR	10		F1P01140
01312	-	00000	_			••••	OTA		F1P01150
01313	-	07400	_			TSX	WAT00+1		F1P01160
01314	_	00000				HTR	10		F1P01170
01315	•	00000	_				OTA		F1P01180
01313			•				ROUTINE TO CONVER	T DIM TABLES TO SIZ TABLE.	F1P01190
A1214	-0	53400	4	00452	ADDGG	I XD	DIM11X-3.4	ENTRY COUNT	F1P01200
		00000			ADDOO	TXL	ADD07.4.0	TABLE EMPTY	F1P01210
		53400			40001	ΙXΔ	1 (5) •2		F1P01220
					ADDO1	DVD	2		F1P01230
01321		76200			AUUUZ	1 7 4	1 (0) 41		F1P01240
01322		53400				LAA	OPGDM1		F1P01250
01323	_	46000	_			DVA	0-0		F1P01260
		75400			*****	CDV	074.1	INDEX RAN OUT AT CK. ESS FORMAT TABLE T DIM TABLES TO SIZ TABLE. ENTRY COUNT TABLE EMPTY COPY NAME COPY N1 COPY AND SUM CK SUMS SUM ENTRIES CHECK SUM ERROR. TRY AGAIN REPEATED CK SUM ERRORS IN REMAINS	F1P01270
01325	_	70000			AUUUS	CPY	OTA+1 OTA+1+1	COPY N1	F1P01280
01326	-	70000	_			TVI	ADD04-12	COFT NI	F1P01290
01327		77776			40004	1 7 1	CADDGE	CORY AND SUM CK SUMS	F1P01300
-		70000			A0004	CAD	40002 . 4 - 1	COPT AND SOFT CR SOFTS	F1P01310
01331	_	00001				117	AUUU39491		F1P01320
		76000				COM	D1411V-2.4		F1P01330
		53400				LXD	1 101 -1		F1P01340
01334	-	53400				LXA	074.1	CUM ENTRIES	F1P01350
01335		36100			AUDUS	ACL	OTALL-1	SOM ENIKIES	F1P01360
01336		36100				ACL	ADD06-12		F1P01370
01337		77776			. 655.	1 7 7	ADD05 - 4 - 1		F1P01380
01340		00001			ADD06	117	ADDUSSASI		F1P01390
01341	_	76000	_			COM	******		F1P01400
01342		10000				IZE	ADDUO	CHECK SHM EDDOR. TRY AGAIN	F1P01410
	-0	53400	4	00452		LXU	DIMILATION	CHECK SOM ENRORY THE AGENT	F1P01420
01344		00001				117	AUUU29291	REPEATED CK SUM ERRORS IN RELIENCE DRUM	F1P01430
01345		07400				15X	DIAG+4	REPEATED OR SOM ERRORD IN RE-	F1P01440
01346					ADDO /	LXA	L(0)+1		F1P01450
01347	-0	63400	1	02110	ADD08	SXD	NEWBAS 1		F1P01460
							NOW READ DIME TAB	LE .	F1P01470
01350	-0	53400	4	00457		LXD	DIM2IX-3,4	TABLE EMPTY	F1P01480
		00000				TXL	ADD18,4,0	IADLE EMPTT	F1P01490
01352	0	53400	2	07735	ADD09	LXA	L(5),2		F1P01500
01353	0	76200	0	00303	ADD10	RDR	3		F1P01510
01354	-0	53400	1	02110		LXD	NEWBAS,1		F1F01520
01355	0	46000	0	00460		LDA	ORGDM2		F1P01530
01356	-0	75400	0	00000		PXD	L(5) +2 3 NEWBAS+1 ORGDM2 0+0		F1P01540
01357	0	70000	1	04551	ADD11	CPY	OTA+1	COPY NAME	F1P01550
01360		70000				CPY	OTA+1+1	COPY NI NZ	F1P01560
01361	1	77776	1	01362		IXI	ADD12:1:-2	THE THE PART OF THE	F1P01570
01362	-0	70000	0	02106	ADD12	CAD	GARBGE	COPY AND SUM CK SUMS	F1P01570
01363	2	00001	4	01357		TIX	ADD11,4,1	•	
01364	0	76000	0	00006	•	COM		TABLE EMPTY COPY NAME COPY N1 N2 COPY AND SUM CK SUMS	F1P01590 F1P01600
		53400				LXD	DIM2IX-3,4		
 01366	-0	53400	1	02110		LXD	NEWBAS • 1		F1P01610
	-								

					1.1					E1001400
	01367 0	36100	1 04551	ADD13		GTA+1				F1P01620 F1P01630
			1 04552			OTA+1+1				F1P01640
			1 01372			ADD14+1+-2			• •	F1P01650
			4 01367			ADD13,4,1				F1P01660
			0.00006		COM					F1P01670
			0 01400			ADD15	CK CHM EDDOD	TOV ACATM		F1901680
	01375 -0	53400	4 00457			DIM2IX-3,4	CK SUM ERROR	INT AGAIN		F1P01690
			2 01353			ADD10,2,1	DEDEATED CV	CHM EDDADS IN	READING DRUM	F1P01700
•			4 00004			DIAG • 4	REPEATED CA	SUM ERRORS IN	KEADING DROM	F1P01710
1 11	01400 -0	53400	4 00457	,,		DIM2IX-3+4	*			F1P01720
	01401 -0					NEWBAS+1				F1P01750
;			0 02107			WORKCL				F1P01740
			1 04552			OTA+1,1 WORKCL				F1P01750
			0 02107			53				F1P01760
			0 00065			WORKCL NI*N2				F1P01770
:			0 02107			OTA+1+1				F1P01780
	01407 -0					ADD17+1+-2			•	F1P01790
2.7	01410 1					ADD16,4,1				F1P01800
			4 01403				TE NEWBAS FOR	DIMS POUTINE		F1P01810
	01412 -0	63400	1 02110	•	SAU	NOW READ DIM3 TA		DIMS ROOTING		F1P01820
				ADD10 1	٧n		JE4			F1P01830
	01413 -0					DIM3IX-3+4 ADD28+4+0	DIM3 TABLE E	MPTY		F1P01840
	01414 -3	00000	4 01462				DIMS TABLE L	rir 11		F1P01850
: '	01415 0	53400	2 07/35	ADD19		L(5) +2				F1P01860
•	01416 0	76200	0 00303	ADD20	RDR					F1P01870
2.0	01417 -0	53400	1 02110			NEWBAS + 1				F1P01880
	01420 0			,		ORGDM3				F1P01890
	01421 -0	75400	0 00000			0.0	:		,	F1P01900
			1 04551			OTA+1				F1P01910
	•		1 04552			OTA+1+1				F1P01920
			4 02243		_	BUFFER,4				F1P01930
			1 01426			ADD22+1+-2				F1P01940
* , *	01426 -0			ADD22		GARBGE				F1P01950
			4 01422			ADD21,4,1				F1P01960
	01430 0	76000	0 00006		MOS	D1421V-3-4				F1P01970
	01431 -0	53400	4 00464			DIM3IX-3,4				F1P01980
	01432 -0					NEWBAS 1				F1P01990
			1 04551	,		OTA+1-1		•		F1P02000
			1 04552			OTA+1+1 BUFFER+4				F1P02010
			4 02243							F1P02020
	-		1 01437			ADD24+1+-2 ADD23+4+1				F1P02030
	A 7		4 01433	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		AUU239491			,	F1P02040
			0 00006		MO	40025				F1P02050
			0 01445			ADD25				F1P02060
	01442 -0			-		DIM3IX-3+4	M FAILED TRY	AGAIN		F1P02070
			2 01416		_		DEDEVLED UKI 1	SUM ERRORS IN	READING DRUM	F1P02080
			4 00004			DIAG 14	REFERIED CK	JOH ERRORS IN	THE SPANS DIGHT	F1P02090
•	01445 -0					DIM3IX-3,4				F1P02100
	01446 -0	53400	1 02110			NEWBAS 1				F1P02110
	01447 0					OTA+1+1				F1P02120
			0 02107			WORKCL				F1P02130
	•		0 02107			WORKCL				F1P02140
			0 00065			53				F1P02150
	01453 0	20000	0 02107		1PY	WORKCL N1*N2				1 11 02 1 7 0

01454		20000				BUFFER,4			1P02160
01455	-0	60000	1 0455	2	STQ	OTA+1+1		FI FI	1P02170
01456	1	77776	1 0145	7	TXI	ADD27:1:-2		F1	1P02180
01457	2	00001	4 0144	7 ADD27	TIX	ADD26,4,1		F1	1P02190
01460		76100			NOP			NOT USED. F1	IP02200
		76100			NOP				IP02210
01461	U	19100	0 0000	·	NOP	NOW WOLLE CIT	TADE		LP02220
	_				2112		IADI		
01462				0 ADD28		0.1			LP02230
01463	0	76000	0000	6	COM	•			LP02240
01464	0	40000	0 0774	0	ADD	DECR1			LP02250
01465	-0.	73400	4 0000	0	PDX	0,4		F1	LP02260
		75400			PXD	0,4		F1	LP02270
01467		77100			ARS			F1	P02280
61470		60100				WORKCL			P02290
						L(1)			P02300
01471		40000							
01472	-	73400				0,1			P02310
01473		53400				L(0),2			P02320
01474	-0	75400	0 0000	0		0•0			P02330
01475	0	36100	2 0455	1 ADD33	ACL	OTA+2		COMPUTE CK SUM FOR SIZ TABLE F1	P02340
01476	1	77777	2 0147	7	TXI	ADD32,2,-1		F1	P02350
01477	2	00001	4 0147	5 ADD32		ADD33,4,1		F1	P02360
01500		60200				OTA+2			P02370
	-	50000				DMASK			P02380
01501						EIFNO			P02390
01502		32000							
01503	_	76600			WTB				P02400
01504		70000				EIFNO			P02410
01505	0	70000	0 0210	7		WORKCL			P02420
01506	-3	00001	1 0151	.3	TXL	ADD31,1,1		F1	P02430
01507	0	53400	2 0773	0	LXA	L(0),2		F1	P02440
01510	0	70000	2 0455	1 ADD29	CPY	OTA+2		F1	P02450
01511	1	77777	2 0151	2	TXI	ADD30,2,-1		· F1	P02460
01512				0 ADD30		ADD29,1,1		F1	P02470
				2 ADD31	WEF				P02480
01513		76600			WTB	_		WRITE SENSE SWITCH SETTINGS AS RE- F1	
01514	_								P02500
01515	_	53400				L(5) +1			-
01516	_					ENDI1+5+1			P02510
01517	2	00001	1 0151	6		X0010,1,1			P02520
01520	0	07400	1 0750	5	TSX	TAP00,1		ASSEMBLE AND WRITE SUBDEF TABLE F1	P02530
01521	0	00000	0 0001	3		11		F1	P02540
01522		00000				OTA		F1	P02550
01523		07400			TSX	WAT00:1		F1	P02560
01524		00000			,	11		F1	P02570
		-				OTA			P02580
01525	_	00000			TCV			·	
01526		07400			15%	TAP00+1			P02590
01527		00000				12			P02600
01530	0	00000	0 0455	1		OTA			P02610
01531	0	07400	1 0765	6	TSX	WAT00+1			P02620
01532	0	00000	0 0001	4		12		F1	P02630
01533	_	00000				OTA		F1	P02640
01534	_	07400			TSX	TAP00+1		ASSEMBLE AND WRITE TABLE OF HOLLERITH ARGS FIL	
01535	-	00000				13		·	P02660
						OTA .			P02670
01536		00000			TCY	WAT00+1			P02680
01537		07400			134				
01540	0	-00000	0001	2		13		T II	P02690

		'							
01541		00000					OTA	AACENOLE TETENO EDON TARE /	F1P02700
		07400				TSX	TAP00.1	ASSEMBLE TEIFNO FROM TAPE 4 INSURE DECREMENT IS CLEAR LENGTH OF TEIFNO INTO I+R+4	F1P02/10
		00000				HTR	O OTA PAT15 OTA-1,4 WRITE,4,1		F1P02720
		00000				HTR	OTA		F1P02750
		60000				STZ	PAT15	INSURE DECREMENT IS CLEAR	F1P02740
		53400				LXD	OTA-1,4	LENGTH OF TEIFNO INTO 1.R.4	F1P02750
		00001				TXL	WRITE,4,1	IS TEIFNO EMPTY OR IS THERE A SINGLE ENTRY	L 1102/00
		53400				LXD	PA113#1		F1P02770
01551	-0	63400	4	02104		SXD	PAT14,4 PAT14,4	SAVE WORD COUNT	F1P02780
01552	-0	53400	4	02104	ISPLUS	LXD	PAT14,4	REINTIALIZE FOR FURTHER SEARCHING	F1P02790
01553	0	50000	1	04551	NEXT		OTA+1	PICK UP NEXT ENTRY IN TEIFNO	F1P02800
		12000					MASK	HAS THIS BEEN PROCESSED	£1505010
01555	0	60200	1	04551		SLW	OTA+1	NO OFF T D. TO LOOK AT MENT CHITCH	L1605050
01556	1	77777	1	01557		TXI	ISTHRU+1+-1	NO SELLARA TO LOOK AT NEXT ENTRY	F1F02830
01557	2	00001	4	01553	ISTHRU	TIX	NEXT , 4 , 1	HAVE ALL ENTRIES BEEN EXAMINED	F1P02040
01560	. 0	02000	0	01606		TRA	WRITE	YES, FINISHED	E1002050
01561	0	62100	0	02105	MASK	STA	OTA,1 ISTHRU,1,-1 NEXT,4,1 WRITE PAT15 RECOMP,1,-1	SAVE WORD COUNT REINTIALIZE FOR FURTHER SEARCHING PICK UP NEXT ENTRY IN TEIFNO HAS THIS BEEN PROCESSED NO, SET I.R. TO LOOK AT NEXT ENTRY HAVE ALL ENTRIES BEEN EXAMINED YES, FINISHED STORE COMPERAND SET I.R.S TO START COMPARISON HAVE ALL ENTRIES BEEN EXAMINED SAVE NUMBER OF ENTRIES YET TO BE TREATED PICK UP ENTRY TO BE COMPARED	F1002000
01562	1	77777	1	01563		TXI	RECOMP #1 #-1	SET TARAS TO START COMPARISON	F1P02070
01563	-0	75400	ī	00000	RECOMP	PXD	091		F102880
		73400				PDX	0,2	ALL CHIRIC DEEN EVANIMED	F1P02030
		00001				TNX	WRITE.4.1	MAYE ALL ENIKIES BEEN EXAMINED	F1002900
01566	-0	63400	4	02104			PAT14+4	SAVE NUMBER OF ENTRIES TELL TO BE INCATED	E1002010
					PAT16	CLA	OTA • 2 NODUP	NO CEARCH MEGEGGARY IE NEGATIVE	F1P02920
		12000				IMI	NODUP	NO SEARCH NECESSARY IF NEGATIVE	F1P02930
		32000				ANA	PATII	ISOLATE EXTERNAL FORMULA NUMBER	F1P02940
		34000				CAS	PAT15	COMPARE TO REMAINING ENTRIES	E1002930
		02000				TRA	NODUP	NO DUPLICATE	F1F02900
01574	0	02000	0	01600		TRA	PAT11 PAT15 NODUP PAT9 PAT8+2+-1	PICK UP ENTRY TO BE COMPARED NO SEARCH NECESSARY IF NEGATIVE ISOLATE EXTERNAL FORMULA NUMBER COMPARE TO REMAINING ENTRIES NO DUPLICATE DUPLICATE NO DUPLICATE NO DUPLICATE NO DUPLICATE NO DUPLICATE NO DUPLICATE	L TL05A10
01575	1	77777	2	01576	NODUP	TXI	PA18,2,-1	NO DUPLICATE SET TORS TO OBTAIN NEXT ENTRY	F1P02980
								FOR COMPARISON	F1P03000
01576	2	00001	4	01567	PATE	TIX	PA116,4,1	HAVE ALL ENTRIES BEEN COMPARED	F1P03010
01577	0	02000	0.	01552		TRA	ISPLUS	TES	F1P03020
01600	0	50000	2	04551	PATS	CLA	OIA 9 Z	NO DUPLICATE SET IORO TO OBTAIN NEXT ENTRY FOR COMPARISON HAVE ALL ENTRIES BEEN COMPARED YES FLAG DUPLICATE ENTRY NEGATIVE WRITE TEIFNO ON TAPE	F1P03020
01601	-0	76000	0	00003		55M	074.0		F1P03030
01602	0	60100	Z	04551		510	01A 9 2		F1P03050
01603	0	50200	ī	04550		CLS	OTA-1-1		F1P03050
01604	0	60100	Ţ	04550		510	TCD: US		F1P03070
01605	Ü	02000	U	01552	WOITE	TCV	ISPLUS	WRITE TELENO ON TARE	F1P03080
01606	ŏ	07400	Ť	07656	MKILE	127	WAIGUSI	RRITE TELFAC ON TAPE	F1P03000
01607	. 0	00000	U	00000		HIK	0.74		F1P02100
01610	0	00000	U	04551		+64	TARORIA	ACCEMBLE TIEGO	E1002110
01611	0	07400	1	07505		15%	TAPOU \$ 1	ASSEMBLE (1750	F1P03110
01612	0	00000	0	00002		HIK	2		F1P03120
01613	U	00000	U	03163	L(ZIA)	HIK	CTART PROCRAM	FOR MODIFICATION OF TIEGO WITH TEIENO	F1P03140
	_	50000		021/2	MEGED	C1 A	START PROURAM	FLAG DUPLICATE ENTRY NEGATIVE WRITE TEIFNO ON TAPE ASSEMBLE TIFGO FOR MODIFICATION OF TIFGO WITH TEIFNO GET NUMBER OF WORDS IN 2TA• EXIT FOR NO ENTRIES IN TABLE• SET INDEX B TO NUMBER OF WORDS• COMPUTE	F1P03150
01614	0	10000	0	01751	MEGIP	TZE	MECUU TIM-T	FYIT FOR NO FNTRIFC IN TARIF	F1P03160
01012	0	72400	0	01121		I T C	WEGUU	SET INDEX R TO NUMBER OF WORDS.	F1P03170
01919	-0	77100	^	00000		ADC	10	COMPUTE	F1P03180
01617	0	77100	٥	00022		AND	LISTAL	2TA	F1P03190
		40000				CTA	MECOO	PLUS	F1P03200
01621	-	62100				STA	MEGOS	NUMBER	F1903210
		62100				STA	MEGOS	OF .	F1P03220
01623	0	62100	0	01201		STA	MEGAO	NUMBER OF WORDS	F1003220
01624	- 0	62100	0	01701		SIA	2TA-1 WFG00 0,2 18 L(2TA) MFG00 MFG03 MFG05 MFG08	COMPUTE 2TA PLUS NUMBER OF WORDS	

01625 0 62100 0 01702	STA MFG09	IN 2TA AND INITIALIZE ADDRESSES GET NUM WORDS IN OTA TABLE EXISTS STOP FOR NO TABLE IN OTA NUMBER WORDS PUT IN AC ADDRESS ADD OTA ORIGIN INITIALIZE ADDRESSES WITH OTA + NUM WORDS ADDR IS 2TA + NUM WORDS IN 2TA. (1) SIGN IS PLUS. SAVE A1. SET INDEX C TO NUM WORDS IN OTA. (2) A1 PRIME AND A1 GO TO AC. ERASE A1 PRIME IN AC. COMPARE TEIFNO ARGUMENT WITH A1. A1 EQUALS ARGUMENT. COMP A1 VS NEXT TEIFNO ENTRY. (3A: A1 PRIME AND A1 GO TO AC. A1 PRIME GOES TO ADDRESS OF AC (1) A1 PRIME REPLACES A1 TAKE WORD 2 OF TIFGO ENTRY (1). AC DECR IS A2, ADDR IS A3 SAVE A3 (2) A3 PRIME AND A3 GO TO AC ERASE A3 PRIME IN AC COMPARE TEIFNO ARGUMENT WITH A3 A3 EQUALS ARGUMENT (3AA3) A3 PRIME AND A3 GO TO AC A3 PRIME GOES TO ADDR OF AC (1). A3 PRIME REPLACES A3 (1). A2 AND A3 PRIME GO TO AC A2 GOES TO ADDR OF AC. SAVE A2 (2) A2 PRIME AND A2 GO TO AC ERASE A2 PRIME IN AC COMPARE TEIFNO ARGUMENT WITH A2 A2 EQUALS ARGUMENT WITH A3 A3 EQUALS ARGUMENT	F1P03240
01626 0 62100 0 01716	STA MFG12	ZTA	F1P03260
01627 0 62100 0 01740	STA MFG18	AND INITIALIZE ADDDESSES	F1P03270
01630 0 62100 0 01747	STA MFG20	GET NIM WORDS IN ATA	F1P03280
01631 0 50000 0 04550	CLA GIA-I	TADIF FYICTS	F1P03290
01632 -0 10000 0 01634	INZ MEGOK	CTOP FOR NO TABLE IN OTA	F1P03300
01633 0 02000 0 07751	IRA IEIFER	NUMBER WORDS PUT IN AC ADDRESS	F1P03310
01634 0 77100 0 00022 MFGUK	AND I ANTAL	ADD OTA ORIGIN	F1P03320
01635 0 40000 0 07750	ADD LIGIA	INITIALIZE ADDRESSES WITH	F1P03330
01636 0 62100 0 01652	STA MEGO2	OTA + NUM WORDS	F1P03340
01637 0 62100 0 01661	STA MEGOS	· · · · · · · · · · · · · · · · · · ·	F1P03350
01640 0 62100 0 01670	STA MEGOT		F1P03360
01641 0 62100 0 01077	STA MEGIO		F1P03370
01642 0 62100 0 01700	STA MFG11	•	F1P03380
01644 0 62100 0 01736	STA MEG17		F1P03390
01645 0 62100 0 01745	STA MFG19		F1P03400
01645 0 50000 2 00000 MFG00	CLA 0.2	ADDR IS 2TA + NUM WORDS IN 2TA. (1)F1P03410
01647 0 12000 0 01722	TPL MFG14	SIGN IS PLUS.	F1P03420
01650 0 62100 0 07746	STA E3	SAVE A1.	F1P03430
01651 -0 53400 4 04550	LXD OTA-1+4	SET INDEX C TO NUM WORDS IN OTA-	2)F1P03440
01652 0 50000 4 00000 MFG01	CLA 0,4	A1 PRIME AND A1 GO TO AC.	F1P03450
01653 -0 32000 0 07742	ANA MSK	ERASE A1 PRIME IN AC.	F1P03460
01654 0 40200 0 07746	SUB E3	COMPARE TEIFNO ARGUMENT WITH Al.	F1P03470
01655 0 10000 0 01661	TZE MFG02	A1 EQUALS ARGUMENT	F1P03480
01656 2 00001 4 01652	TIX MFG01,4,1	COMP AT VS NEXT TETENO ENTRY (3A.	E1003490
01657 0 50000 0 02103	CLA PAT13		F1P03500
01660 0 02000 0 01663	TRA MFG03	AT POTHE AND AT CO TO AC.	F1P03510
01661 0 50000 4 00000 MFG02	CLA 0.4	AT PRIME AND AT GO TO ACC	F1P03530
01662 0 77100 0 00022	ARS 18	AT PRIME GOES TO ADDRESS OF AC	F1P03540
01663 0 62100 2 00000 MFG03	STA 0.2	TAVE WORD 2 OF TIEGO ENTRY	F1P03550
01664 1 77777 2 01665 MFG04	TXI MFG05,2,-1	(1). AC DECR IS A2. ADDR IS A3	F1P03560
01665 0 50000 2 00000 MFG05	CLA U+2	CAVE AZ	F1P03570
01666 0 62100 0 07746	SIA E3	12)	F1P03580
01667 -0 53400 4 04550	CLA O-A	A3 PRIME AND A3 GO TO AC	F1P03590
01670 0 50000 4 00000 MFGU6	CLA U94	FRASE AS PRIME IN AC	F1P03600
01671 -0 32000 0 07742	ANA MON	COMPARE TEIFNO ARGUMENT WITH A3	F1P03610
01672 0 40200 0 07746	175 MEGA7	A3 EQUALS ARGUMENT	F1P03620
01673 0 10000 0 01677	TIY MEGOGAGA	(3A3)	F1P03630
01674 2 00001 4 01070	CLA PAT13		F1P03640
01675 0 90000 0 02103	TRA MEGOS		F1P03650
01675 0 02000 0 01701	CLA 0.4	A3 PRIME AND A3 GO TO AC	F1P03660
01700 0 77100 0 00022	ARS 18	A3 PRIME GOES TO ADDR OF AC	F1P03670
01700 0 77100 0 00022	STA 0.2	(1) A3 PRIME REPLACES A3	F1P03680
01701 0 52100 2 00000 MFG09	CLA 0.2	(1). A2 AND A3 PRIME GO TO AC	F1P03690
01702 0 77100 0 00022	ARS 18	A2 GOES TO ADDR OF AC.	F1PQ3700
01704 0 62100 0 07746	STA E3	SAVE A2	F1P03710
01705 -0 53400 4 04550	LXD OTA-1:4	(2)	F1P03720
01706 0 50000 4 00000 MFG10	CLA 0,4	A2 PRIME AND A2 GO TO AC	F1P03730
01707 -0 32000 0 07742	ANA MSK	ERASE A2 PRIME IN AC	F1P03740
01710 0 40200 0 07746	SUB E3	COMPARE TEIFNO ARGUMENT WITH A2	F1P03750
01711 0 10000 0 01715	TZE MFG11	A2 EQUALS ARGUMENT	F1P03760
01712 2 00001 4 01706	TIX MFG10,4,1	(3A2)	F 1P03770

:	01713	0	50000 02000 50000	0	02103		CLA	PAT13			7	GO TO ACLACES A2 DE NEXT 2TA ENTRY OF 2TA ENTRY TING PROGRAM DINDEX C DIFICATION DIFICATION TA ENTRY TO ACLATE TO AC	F1P03780
	01714	î 0 -	02000	Ġ.	01716		TRA	MFG12			40 "BD 145 AND 42 (0 TO AC	E1003790
	01715	0	50000	4	00000	MFG11	CLA	0+4			AZ PRIME AND AZ	ACES AS	F1P03000
	01716	0	62200	2	00000	MFG12	STD	0.2			(1) AZ PRIME REPE	ALES ME Ne Meyt STA ENTDY	F1P03010
	01717	2	00001	2	01646		TIX	MFG00+2+1			TAKE PEROND WORD	OF 2TA ENTRY	F1P03820
	01720	2	00001	2	01717	MFG13	TIX	MFG13-1+2+1			TARE SECOND WORD	TING DECEMBER	F1003840
	01721	0	02000	0	01751		IKA	WEGOU			INTEGED N GOES TO	INDEX C	F1P03850
	01722	0	73400	4	00000	MFG14	PAX	U94			INTEGER IN GOLS IN	INDEX C	F1P03860
	01723	0	02000	4	01733		TRA	MFG14+994			N FOULL S 7 NO MOS	MELCATION	F1P03870
	01724	0	02000	0	01720		IKA	MFG15			M FOULLS / NO HOL	JIF ICK! ION	F1P03880
	01725	0	02000	Û	01/34		TRA	MEGO/			N FOUNTS 5		F1P03890
	01726	0	02000	Ö	01664		TDA	MEGO4			N FOLIALS A		F1P03900
	01727	Ū	02000	ŏ	01664		TDA	MEGO4			N FOHALS 3		F1P03910
	01730	Ö	02000	Š	01720		TDA	MEG12			N FOUALS 2 NO MOI	DIFICATION	F1P03920
	01731	Ň	02000	~	01720		TDA	MEG12			N FOUALS 1 NO MOS	DIFICATION	F1P03930
	01732	Ö	02000	Š	01720		TPA	MFG15			N EQUALS 0		F1P03940
	01733	3	77777	2	01725	MEG15	TYI	MFG16.21			TAKE WORD 2 OF 21	TA ENTRY	F1P03950
	01725		53400	4	04550	MEG16	1 XD	014-1-4			(2)		F1P03960
	01735	-0	50000	4	00000	MEG17	CLA	0.4			K PRIME AND K GO	TO AC	F1P03970
	01727	~0	33000	7	07742	141 O. 1	ANA	MSK			ERASE K PRIME		F1P03980
	01740	,-y.	40200	Š	00000	MFG18	SUB	0.2			(1) - COMPARE K W	TH TEIFNO ARGUMEN	TF1P03990
	01740	Λ.	10000	'n	01745	FII. 010	TZF	MFG19			K EQUALS ARGUMENT		F1P04000
	01762	- 2	00000	ĭ	01736		TIX	MFG17.4.1			(3K)	•	F1P04010
	01742	-6	50000	7	02103		CLA	PAT13					F1P04020
	01744	Ô	02000	ŏ	01747		TRA	MFG20					F1P04030
	01745	ñ	50000	ĭ	00000	MFG19	CLA	0.4			K PRIME AND K GO	TO AC	F1P04040
	01766	Õ	77100	ñ	00022	💶	ARS	18			K PRIME GOES TO	ADDRESS OF AC	F1P04050
	01747	ň	62100	ž	00000	MFG20	STA	0+2			(1). K PRIME REPL	ACES K	F1P04060
	01750	. 2	00001	2	01646	020	TIX	MFG00+2+1			TAKE FIRST WORD	OF NEXT 2TA ENTRY	F1P04070
	01751	o.	07400	ī	07656	WFG00	TSX	WAT00+1			WRITE 2TA ON TAPE		F1P04080
-	01752	ŏ	00000	õ	00002			2					F1P04090
	01753	. 0	00000	ō	03163		HTR	2TA					F1P04100
	01754	ŏ	07400	ĭ	07505		TSX	TAP00+1			ASSEMBLE TRAD		F1P04110
	01755	ŏ	00000	ō	00003		HTR	3					F1P04120
	01756	Ō	00000	Ō	03163	L(3TA)	HTR	3TA					F1P04130
			••••		,			PROGRAM I	FOR	MODIFICA	TION OF TRAD WITH	TEIFNO	F1P04140
	01757	0	50000	0	03162	MTRTP	CLA	3TA-1			GET NUM OF WORDS	IN 3TA	F1P04150
	01760	0	10000	0	02011		TZE	WTROO			NO ENTRIES IN TAR	BLE	F1P04160
	01761	-0	73400	2	00000		PDX	0.2			NUMBER OF WORDS	OT IN INDEX B	F1P04170
	01762	0	77100	0	00022		ARS	18			RESET ADDRESSES		F1P04180
	01763	0	40000	0	01756		ADD	L(3TA)					F1P04190
	01764	0	62100	0	02000		STA	MTRO2					F1P04200
	01765	0	62100	0	02007		STA	MTRO4				••• •=•	F1P04210
	01766	0	50000	0	04550		CLA	OTA-1			GET NUMBER WORDS	IN OTA.	F1P04220
	01767	-0	10000	0	01771		TNZ	MTROK			TABLE EXISTS		F1P04230
	01770	0	02000	0	07751		TRA	TEIFER		STOP FOR	NO TABLE IN OTA	THE AC ADDRESS	F104240
	01771	0	77100	0	00022	MTROK	ARS	18			PUT NUMBER WORDS	IN AC AUDKESS	F1P04250
	01772	0	40000	0	07750		ADD	L(OTA)			ADD OTA ORIGIN		F1804200
	01773	0	62100	0	01775		STA	MTRO1			INITIALIZE ADURES	00 IN HODOS IN OTA	F104270
	01774	-0	53400	4	04550	MTR00	LXD	01A-1+4			SET INDEX C TO NO	JM WUKUS IN UIA	E1004200
	01775	0	50000	4	00000	MTR01	CLA	0 9 4			A SUB I PRIME AND	A SUB I GO TO AC	F10427U
	01776	0	62200	0	07746		STD	E3			SAVE A SUB I PRIM	7E	F1P04300
	01777	-0	32000	0	07742		ANA	MSK			EKASE A SUB I PK	TO AC ADDRESS OF AC ACES K OF NEXT 2TA ENTRY E IN OTA. IN OTA. IN AC ADDRESS OF AC ACE ACE ACE ACE ACE ACE ACE ACE ACE	F1F04310

	02000	0	40200	2	00000	MTR02	SUB	0,2			ADDR IS 3TA + NUM WORDS IN 3TA (1) A SUB I EQUALS ARGUMENT A SUB I NOT EQUAL TO ARGUMENT	F1P04320
	02001	.0	10000	0	02005		TZE	MTR03			A SUB I EQUALS ARGUMENT	F1P04330
	02002	2	00001	4	01775		TIX	MTR01,4,1			A SUB I PRIME GOES TO AC DECRONA SUB I PRIME GOES TO AC ADDROCATION OF TOO WITH TEIFNO GET NUMBER OF WORDS IN ITA EXIT FOR NO WORDS IN ITA EXIT FOR NO WORDS IN ITA PUT IN IRB NUMBER OF WORDS IN ITA PUT IN IRB	F1P04340
	02003	0	50000	0	02103		CLA	PAT13				F1P04350
	02004	0	02000	0	02007		TRA	MTRO4			4 CHD 1 DDINE COEC TO 46 DECD	F1004300
	02005	0	50000	0	07746	MTR03	CLA	E3			A SUB I PRIME GUES TO AC ADDR	F1P04370
	02006	0	77100	0	00022		ARS	18			A SUB I PRIME GUES TO AC ADDRO	F1PU438U
	02007	0	62100	2	00000	MTR04	STA	0,2			TAKE MENT WORD OF STA	F1004390
	02010	2	00001	2	01774		TIX	MTR00.2.1			TAKE NEXT WORD OF STA	F1P04400
	02011	0	07400	1	07656	WTROO	TSX	WAT00+1			ALL WURDS OF STA EXAMINED SO	F1P04410
	02012	0	00000	0	00003			3			WRITE STA UN TAPE	F1P04420
	02013	0	00000	0	03163			31A			ACCENDIE TOO	F1P04430
	02014	. 0	07400	1	07505	ADOOO	ISX	IAP00+1			ASSEMBLE IDU	F1P04440
	02015	0	00000	0	00001			1			ODICIN OF ACCEMBLED TOO	F1P04450
	02016	0	00000	0	03163	OATDO		LIA	EAR	MODIETA	CATION OF TOO WITH TELENO	F1P04400
		_		_			c	PROGRAM	FUR	MODIFIC	CET NUMBER OF WORDS IN ITA	F1004410
	02017	0	50000	0	03162	MDOTP	CLA	114-1			EVIT FOR NO WORDS IN TABLE	F1804400
	02020	0	10000	0	02074		125	WD000			MINNEED OF HODDE IN ITA DIT IN IDD	F1P04490
	02021	-0	73400	2	00000		PDX	0,2			NUM WORDS PUT IN AC ADDR	F1P04500
	02022	0	77100	0	00022		AKS	18			ADD ODICIN OF ACCEMBLED TOO	F1P04510
	02021 02022 02023 02024 02025	0	40000	0	02016		ADD	OAIDO			INITIALIZE ADDDECCES	F104520
	02024	- 0	62100	0	02036		SIA	MDOOG			INITIALIZE ADDRESSES	F1004550
	02025	0	62100	0	02072		STA	MDOGO				F1P04550
	02026	Ü	62100	U	02041		SIA	MDU3U			GET NUMBER WORDS IN OTA	F1P04550
	02027	0	50000	Ö	04550	MDOOK	ADE	10			PHT NUMBER WORDS IN AC ADDRESS	F1P04570
	02030					MDOOK	WVO	I-AOTA1			ADD OTA ORIGIN AND	F1P04580
	02031		40000			., .	STA	PROGRAM 1TA-1 WD000 0+2 18 0ATD0 MD000 MD000 MD006 MD030 0TA-1 18 L(0TA) MD002 MD003 MD004			NUM WORDS PUT IN AC ADDR ADD ORIGIN OF ASSEMBLED TDO INITIALIZE ADDRESSES GET NUMBER WORDS IN OTA PUT NUMBER WORDS IN AC ADDRESS ADD OTA ORIGIN AND INITIALIZE ADDRESSES	F1P04590
	02032		62100 62100				STA	MDO02			THE PROPERTY OF THE PROPERTY O	F1P04600
	02033	~	62100	~	02057		STA	MD004				F1P04610
•			62100				STA	MDOO4			ADDR IS ITA + NUMBER WORDS (1) SIGN OF WORD IS PLUS CHANGE SIGN OF WORD IN TABLE	F1P04620
	02035	٧	62100	3	02070	MDOOO-	CLA	0.2			ADDR IS ITA + NUMBER WORDS (1)	F1P04630
	02036		12000			MDOOO	TPI	MDO01			SIGN OF WORD IS PLUS	F1P04640
	02037					:	SSP	110001			CHANGE SIGN OF WORD IN TABLE	F1P04650
	02040	Ŏ	40100	2	00000	MDO30	STO	0.2				F1P04660
	02041	~	03000	^	02073	110000	TRA	MDO07			ERASE DECR IN AC	F1P04670
	02042	-0	32000	ň	07742	MD001	ANA	MSK			ERASE DECR IN AC	F1P04680
	02043	-0	62100	6	07747	11001	STA	F1			SAVE BETA	F1P04690
	02044	_0	53400	4	04550		LXD	OTA-1:4			SET INDEX C TO NUM WORDS IN OTA	F1P04700
	02045	_ a	00000	4	02050		TXH	MD002+4+0			TEST FOR TEIFNO	F1P04710
	02047	õ	02000	ó	07751		TRA	0,2 MD007 MSK E1 OTA-1,4 MD002,4,0 TEIFER 0,4 MSK E1 MD003 MD002,4,1 PAT13 MD006	S	TOP FOR	R NO TEIFNO	F1P04720
	02050	ő	50000	4	00000	MD002	CLA	0 • 4			BETA PRIME AND BETA GO TO AC	F1P04730
	02051	-0	32000	o	07742		ANA	MSK			BETA PRIME AND BETA GO TO AC ERASE BETA PRIME	F1P04740
	02051	0	40200	Ô	07747		SUB	E1			BETA COMPARED WITH TABLE ARGUMENT	F1P04750
	02052	õ	10000	Õ	02057		TZE	MD003			BETA EQUALS ARGUMENT	F1P04760
	02055	2	00001	4	02050		TIX	MD002.4.1			BETA NOT EQUAL TO ARGUMENT	F1P04770
	02055	ō	50000	ò	02103		CLA	PAT13			BETA NOT EQUAL TO ARGUMENT	F1P04780
	02056	ŏ	02000	ō	02072		TRA	MD006			The state of the s	F1P04790
						MD003	CLA	0 • 4			BETA PRIME AND BETA GO TO AC	F1P04800
	02060		62200				STD	E2			SAVE DECR OF FIRST POSSIBILITY	F1P04810
	02061	-2	00001	4	02066		TNX	MD008,4,1			SEE IF THERE ARE 2 ENTRIES FOR	F1P04820
	02062	ō	50000	4	00000	MD004	CLA	0 • 4				F1P04830
	02063	-0	32000	C	07742		ANA	MSK			ERASE DECR IN AC	F1P04840
	02064	-0	40200	0	07747		SUB	E1				F1P04850
		-										

```
F1P04860
                             TZE MD0041
 02065 0 10000 0 02070
                                                                  THERE ARE 2 ENTRIES
 02066 0 50000 0 07746 MD008 CLA E2
                                                                  THERE IS ONLY ONE ENTRY
                                                                                                        F1P04870
                                 TRA MD005
                                                                                                        F1P04880
 02067 0 02000 0 02071
                                                                  FOR THIS ARGUMENT
 02070 0 50000 4 00000 MD0041 CLA 0,4
                                                                                                        F1P04890
 02071 0 77100 0 00022 MD005 ARS 18
                                                                                                        F1P04900
02072 0 62100 2 00000 MD006 STA 0+2 (1). BETA PRIME REPLACES BETA
02073 2 00005 2 02036 MD007 TIX MD000+2+5 TAKE NEXT ENTRY IN 1TA
02074 0 07400 1 07656 WD000 TSX WAT00+1 WRITE TDO ON TAPE
                                                                                                        F1P04910
                                                                                                        F1P04920
                                                                                                        F1P04930
                                                                                                        F1P04940
 02075 0 00000 0 00001
                                 HTR 1
02076 0 00000 0 03163 TOT1
                                 HTR 1TA
                                                                                                        F1P04950
02077 0 76200 0 00221
                                                                                                        F1P04960
                                 RTB 1
                                                             GO TO 1-CS FOR PART B OF ONE PRIME F1P04970
02100 0 02000 0 00004
                                 TRA 4
                                                                                                        F1P04980
02101 0 77777 0 00000 DMASK 0.0.32767
02102 +000000077777 PAT11 OCT 77777
                                                                                                        F1P04990
02103 0 00000 0 00000 PAT13 HTR 0
                                                                                                        F1P05000
02104 0 00000 0 00000 PAT14 HTR 0
                                                                                                        F1P05010
02105 0 00000 0 00000 PAT15 HTR 0
                                                                                                        F1P05020
                   02106 GARBGE BSS 1
                                                                                                        F1P05030
                   02107 WORKCL BSS 1
                                                                                                        F1P05040
                   02110 NEWBAS BSS 1
                                                                                                        F1P05050
                   02243 BUFFER BES 90
                                                                                                        F1P05060
                   02243 E1PTS BSS 1
                                                                                                        F1P05070
                   02244 FLSIZE BSS 1
                                                                                                        F1P05080
                   02245 CMPREC BSS 1
                                                                                                        F1P05090
                   03162 END1PA ORG 1650
                                                                                                        F1P05100
                                                             NO OF WORDS IN BLOCK
                                                                                                        F1P05110
                   03162 1TAM1 BSS 1
                                                              BLOCK FOR TABLE ASSEMBLING
                                                                                                       F1P05120
                   03163 1TA
                                 BSS 750
                                                                                                        F1P05130
                                                                                                        F1P05140
                                    704 FORTRAN MASTER RECORD CARD / 1 PRIME PART B = F0240000. F1P05150
                                 ORG 0
                                                                                                        F1P05160
                   00000
00000 0 00507 0 00507
                               PZE ORG1PB,ORG1PB
                                                                                                        F1P05170
                                 PZE END1PB
                                                                                                       F1P05180
00001 0 00000 0 01613
                                                                                                        F1P05190
                                    THIS IS PART B OF 2 PARTS OF SECTION ONE PRIME
                                                                                                       F1P05200
                                                                                                       F1P05210
                   00507 ORG1PB ORG 327
                                                                                                       F1P05220
                                NOP TO PERMIT A STOP FOR TESTING USE. F1P05220
TSX TAP00+1 ASSEMBLE FORVAL F1P05240
00507 0 76100 0 00000
00510 0 07400 1 07505
00511 0 00000 0 00006 TNT6 HTR 6
                                                                                                       F1P05250
00512 0 00000 0 01614 TOT6 HTR 6TA
                                                                                                        F1P05260
00512 U 00000 U 01614 1016 MIK 61A F1P05260

00513 -0 53400 4 01613 LXD 6TA-1;4 TEST FOR ENTRIES IN FORVAL; IF NONE WRITE F1P05270

00514 -3 00000 4 00546 TXL CLMD09;4.0 IDENTIFICATION WORD AND ZERO WORD. F1P05280
                                                                                                       F1P05290
00515 0 07400 1 07505 TSX TAP00+1
00516 0 00000 0 00020 16
00517 0 00000 0 03564 L16TA 16TA
                                                        ASSEMBLE TABLE OF FIRST, LAST FORMULA
                                                                                                       F1P05300
                                                         NUMBERS OF CALL STATEMENTS.
                                                                                                       F1P05310
00520 -0 53400 2 03563 LXD 16TA-1.2 TEST FOR ANY ENTRIES IN CALL NUMBER TABLE: F1P05340 00521 -3 00000 2 00546 TXL CLMD09.2.0 IF NONE WRITE OUT FORVAL TABLE. F1P05350
                                                                                                      F1P05360
                                                                                                      F1P05370
                                     THERE ARE ENTRIES IN BOTH FORVAL AND CALL NUMBER TABLES.
                                     THEREFORE THERE MAY BE SOME NUMBER IN FORVAL WHICH MUST BE F1P05380
                                     REPLACED WITH THE LAST NUMBER RELATED TO A CALL STATEMENT. F1P05390
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								THE BROCKAN TO SE	ARCH AND REPLACE IS BASED UPON THE TWO	F1P05400
								TARLES REING ORDER	RED BY MAGNITUDE OF INTERNAL FORMULA	F1P05410
								NOMBERS 11115 FER	PREPARE FOR FORWARD SEARCH. NO OF ENTRIES IN FORVAL.	F1P05430
	00533	^		^	02107		ST7	WORKCL		F1P05440
	00522		53400					L(0)+1	PREPARE FOR FORWARD SEARCH	F1P05450
	00523							6TA-1,4	NO OF ENTRIES IN FORVAL.	F1P05460
			53400				PXD	•2	NO OF ENTINES IN FORTHER	F1P05470
			75400 77100					18		F1P05480
	00526		40000					L16TA		F1P05490
	00527		62100					*+1	•	F1P05500
	00530	U	62100	U						F1P05510
	00521		50000	2		CL MDG1	CLA	***	GET NEXT ENTRY IN CALL TABLE. DIVIDE ENTRY INTO FIRST IN AC, LAST IN CS.	F1P05520
	00532	0	42200	6	02107	CLIIDOI	STD	WORKCL	DIVIDE ENTRY INTO FIRST IN AC. LAST IN CS.	F1P05530
		-0	22000	0	07742		ANA	MSK		F1P05540
		-0	76700	ň	00022					F1P05550
		~	34000	1	01614	CLMD02	CAS	6TA+1	COMPARE CALL FIRST IN AC TO NEXT FORVAL.	F1P05560
	00535	1	77777	1	01017	CEMBOZ	TYI	CLMD04+1+-1	CALL GREATER THAN FORVAL	F1P05570
	00220	•	02000	ń	00545		TRA	CLMD03	CALL EQUAL FORVAL.	F1P05580
	00540	2	02000	2	00531				GO FOR NEXT CALL ENTRY IF ANY OTHERWISE	F1P05590
	00541				00546			CLMD09	GO WRITE FORVAL TABLE.	F1P05600
	00541									F1P05610
	00542	0	50000	٥	02107	CLMD03	CLA	WORKCL	REPLACE FORMULA NUMBER IN FORVAL WHICH IS	F1P05620
		ñ	62200	1	01614		STD	6TA+1	FIRST RELATED TO CALL WITH LAST.	F1P05630
	00544	1	77777	î	00545		TXI	*+1,1,-1		F1P05640
	00545	•	00001	4	00535	CLMD04	TIX	CLMD02,4,1	REPLACE FORMULA NUMBER IN FORVAL WHICH IS FIRST RELATED TO CALL WITH LAST. GO ON WITH SEARCH IF THERE ARE MORE FORVALS IF NOT GO WRITE FORVAL TABLE.	SF1P05 6 50
	40343	-		٠	,				IF NOT GO WRITE FORVAL TABLE.	
									•	F1P05670
	00546	Ö	07400	1	07656	CLMD09	TSX	WAT00+1	FORVAL ON TAPE GET NUMBER OF WORDS IN FORVAL TABLE EXISTS EXIT TO ASSEMBLE NEXT TABLE PREPARE TO WRITE FORVAL ON DRUM SET INDEX A TO NUM OF WORDS SET INDEX B TO ZERO PUT NUM OF WORDS IN AC INITIALIZE	F1P05680
	00547	0	00000	0	00006		HTR	6	FORVAL	F1P05690
	00550	0	00000	0	01614		HTR	6TA	ON TAPE	F1P05700
	00551	0	50000	0	01613		CLA	6TA-1	GET NUMBER OF WORDS IN FORVAL	F1P05710
	00552	-0	10000	0	00554		TNZ	WFD00	TABLE EXISTS	F1P05720
-	00553	0	02000	0	00610		TRA	A4VAR	EXIT TO ASSEMBLE NEXT TABLE	F1P05730
	00554	Ō	76600	0	00302	WFD00	WRS	194	PREPARE TO WRITE FORVAL ON DRUM	F1P05740
	00555	-0	73400	1	00000	WFD01	PDX	0,1	SET INDEX A TO NUM OF WORDS	F1P05750
	00556	0	53400	2	00555		LXA	WFD01,2	SET INDEX B TO ZERO	F1P05760
	00557	0	77100	0	00022		ARS	18	PUI NOM OF WORDS IN AC	F1P05770
	00560	0	40000	0	00512		ADD	1016	*********	F1P05780 F1P05790
	00301		. 62100	U	00211		STA	WFD04 WFD07 L(1)	INITIALIZE	F1P05800
	00562	0	62100	0	00602		STA	WFD07		F1P05810
5.*	00563		40200				SUB	L(1)	ADDRESSES	
	00564	_	62100				STA	WFD03		F1P05820 F1P05830
	00565		62100				STA	WFD06	CURTOACT ONE FROM INDEX A	F1P05840
	00566	1	77777	1	00567		IXI	WFD02919-1	COMPUTE CHECK CHA	FIDOSESO
	00567	0	76000	0	00000	WFD02	CEM		EOD EACH EODVAL	F1P05860
	00570	0	36100	1	00000	WFD03	ACL	0 1	FUR ENCH FURYAL ENTRY AND CAVE IN	F1P05850 F1P05860 F1P05870
	00571	0	36100	1	00000	WFD04	ACL	EDCHE - 2	CEDADATE TARIF	F1P05880
		0	60200	2	03564		SLW	HEDDE 31	. •	F1P05890
	00573	1	77777	2	00574	UEDOS	171	WFDQ2:1:2	TEST END OF FORVAL ENTRIES	F1P05900
	00574	2	00002	Ī	00567	WFUUD	IIX	WFDQ1-2	SET INDEX B TO ZERO	F1P05910
	00575	. 0	53400	2	00555		ĻΧΑ	WFD02,1,2 WFD01,2 6TA-1,1	SEI INDEX D TO ELKO	F1P05920
	00576	•	33700	-	V Z Z Z Z			• • • • • • • • • • • • • • • • • • • •		F1P05930
	00577	Ü	46000	U	01144		LUA	DRL02		

				*				E1005040
	00600 1	77777 1	00601		TXI	WFD06+1+-1	HATTE FORMAL	F1P05940
	00601 0	70000 1	00000	WFD06	CPY	0.1	WRITE FORVAL	F1P05950
	00602 0	70000 1	00000	WFD07	CPY	0.1	ENIRY	F1P05900
	00603 -2	00002 1	00606		TNX	WFD08+1+2	TEST END OF FORVAL ENTRIES	F1005000
	00604 0	70000 2	03564		CPY	FRCHS • 2	WRITE CHECK SUM	E1005000
	00605 1	77777 2	00601		TXI	WFD06,2,-1	FOR ABOVE ENTRY	F1P05990
	00606 0	70000 2	03564	WFD08	CPY	FRCHS+2	WRITE CHECK SUM FOR LAST ENTRY	F1P06000
	00607 0	70000 0	07743		CPY	FRCON	WRITE END OF TABLE SIGNAL	F1P06010
	00610 0	07400 1	07505	A4VAR	TSX	TAP00+1	ASSEMBLE FORVAR.	F1P06020
	00611 0	00000 0	00005	TNT5	HTR	5		F1P06030
	00612 0	00000	01614		HTR	5TA		F1P06040
	00612 0	07400 1	07656		TSX	WAT00.1	WRITE FORVAR ON TAPE	F1P06050
	00614 0	00000	00005		HTR	5		F1P06060
	00615 0	00000	01614		HTR	5TA		F1P06070
	00616 0	07400 1	07505		TSX	TAP00 • 1	ASSEMBLE FORTAG	F1P06080
	00610 0	01400	000004		HTR	4		F1P06090
	00630 0	00000 0	01614		HTR	4TA		F1P06100
	00620 0	07400 1	07656		TSX	WATOO+1	WRITE FORTAG ON TAPE	F1P06110
	00621 0	00000	0,000		HTR	4		F1P06120
	00622 0	00000	01614		HTR	414		F1P06130
	00023	00000 0	01014			PROGRAM	FOR PROCESSING FREQUENCY TABLE+ FRET	F1P06140
		07400 1	07505		TCY	TAPONAT	ASSEMBLE FRET	F1P06150
	00624 0	07400 1	0/202		UTD	7	7,000.1022 7.112.1	F1P06160
	00625 0	00000	00007	TOTZ	UTD	7 7 4	ORIGIN OF ASSEMBLED FRETA	F1P06170
	00626 0	00000 0	01614	IOI7	CLA	7TA-1	GET NUM OF WORDS IN TABLE	F1P06180
	00627 0	50000 0	01613	MERIP	TZE	/!W-1	EXIT FOR EMPTY TARIF	F1P06190
	00630 0	10000 0	01114		125	WERUU A-2	SET INDEX B TO NUM WORDS IN TABLE	F1P06200
	00631 -0	73400 2	00000		ADC	0 9 2	PLIT NUMBER IN AC ADDRESS AND	F1P06210
	00632 0	77100 0	00022		ARS	10	INITIALIZE ADDRESSES	F1P06220
	00633 0	40000	00626		ADU	1017	INTITUTE ADDITIONS	F1P06230
	00634 0	62100 0	00645		SIA	MFROO		F1P06240
	00635 0	62100 0	00662		SIA	MFR03	CET NUMBER OF WORDS IN OTA	F1P06250
	00636 0	50000 0	04550		CLA	OTA-1	TABLE EVICES	F1P06260
	00637 -0	10000 0	00641		TNZ	MFROK	IADLE EXISTS	F1P06270
	00640 0	02000 0	07751		TRA	TEIFER	STOP FOR NO TABLE IN OTA	E100210
	0.0641 0	77100 0	00022	MFROK	ARS	18	PUI NUMBER WORDS IN AC ADDRESS	F1P04200
	00642 0	40000 0	07750		ADD	L(OTA)	ADD OIA URIGIN AND	F1P04290
	00643 0	62100 0	00651		STA	MFR01	INITIALIZE ADDRESSES	F1P06300
	00644 0	62100 0	00660		STA	MFR02	AND THE PERSON OF HORSE	F1P06310
	00645 0	50000 2	00000	MFR00	CLA	0,2	ADDR IS 7TA + NUMBER OF WORDS	F1P06920
	00646 0	12000 0	00663		TPL	MFRQ4	DO NOT MODIFY THIS WORD	F1PU633U
	00647 0	62100 0	01604		STA	E10	SAVE ABSOLUTE PART OF WORD	F1PU6340
	00650 -0	53400 1	04550		LXD	OTA-1+1	SET INDEX TO NUM WORDS IN OTA	F 1P06350
	00651 0	50000 1	00000	MFR01	CLA	0.1	TEIFNO ARGUMENT IS IN AC.	F1P06360
	00652 -0	32000 0	07742		ANA	MSK	COMPARE WITH 7TA WORD	F1P06370
	00652 0	40200 0	01604		SUB	E10		F1P06380
	00654 0	10000	00660		TZE	MFR02	MODIFY 7TA WORD	F1P06390
	00655 2	00001	00651		TIX	MFR01:1:1	GO TO NEXT TEIFNO WORD	F1P06400
	00454 A	50001	07730		CLA	L(0)	NO ENTRY FOUND IN TEIFNO. IGNORE.	F1P06410
	00000	02000 0	00662		TRA	MFR03		F1P06420
	00657 0	50000	04551	MFR02	CLA	OTA • I	TEIFNO WORD GOES TO AC	F1P06430
	00000 0	77100	000000	A1 110 E	ARS	18	INTERNAL FORMULA NUM IN AC ADDR.	F1P06440
	00001 0	42100	00022	MERG3	STA	0.2	INTERNAL FORMULA NUM GOES TO 7TA	F1P06450
	00662 0	02100 2	00000	MERO4	TIX	MFR00+2+1	WRITE FORVAL ENTRY TEST END OF FORVAL ENTRIES WRITE CHECK SUM FOR ABOVE ENTRY WRITE CHECK SUM FOR LAST ENTRY WRITE END OF TABLE SIGNAL ASSEMBLE FORVAR. WRITE FORVAR ON TAPE ASSEMBLE FORTAG WRITE FORTAG ON TAPE FOR PROCESSING FREQUENCY TABLE. FRET ASSEMBLE FRET. ORIGIN OF ASSEMBLED FRET. GET NUM OF WORDS IN TABLE EXIT FOR EMPTY TABLE SET INDEX B TO NUM WORDS IN TABLE PUT NUMBER IN AC ADDRESS AND INITIALIZE ADDRESSES GET NUMBER OF WORDS IN OTA TABLE EXISTS STOP FOR NO TABLE IN OTA PUT NUMBER WORDS IN AC ADDRESS ADD OTA ORIGIN AND INITIALIZE ADDRESSES ADDR IS 7TA + NUMBER OF WORDS DO NOT MODIFY THIS WORD SAVE ABSOLUTE PART OF WORD SET INDEX TO NUM WORDS IN OTA TEIFNO ARGUMENT IS IN AC. COMPARE WITH 7TA WORD MODIFY 7TA WORD GO TO NEXT TEIFNO WORD NO ENTRY FOUND IN TEIFNO. IGNORE. TEIFNO WORD GOES TO AC INTERNAL FORMULA NUM IN AC ADDR. INTERNAL FORMULA NUM GOES TO 7TA EXAMINE NEXT WORD OF 7TA	F1P06460
	00663 2	00001 2	. 00049	AI KUT	, , , ,	PROGRAM	FOR SORTING FRET	F1P06470
-						. ,	-	

								E100//00
00664	0	50000 0	01613	SFRTP	CLA	7TA-1	GET NUMBER OF WORDS IN FRET	P1P06480
00665	0	77100 0	00022		ARS	18	NUMBER WORDS IN TABLE GO TO AC ADD	KF 1PU649U
00666	0	40000 0	00626		ADD	TOT7	COMPUTE NUMBER OF WORDS IN TABLE	F1P06500
00667	0	62100 0	00701		STA	SFR01	PLUS ORIGIN OF TABLE AND INITIALIZ	EF1P06510
00670	Õ	62100 0	00707		STA	SFR03	ADDRESSES	F1P06520
00671	ិ	62100 0	00721		STA	SFR06		F1P06530
00672	ñ	62100 0	00724		STA	SFR07		F1P06540
00012	٥	62100 0	00723		STA	SFR11		F1P06550.
00073	ň	62100 0	00743		STA	SFR13		F1P06560
00074	0	62100	00752		STA	SED17		F1P06570
00675	Ö	62100 0	00193	CEDAA	CIM	SIRII	SET F12 TO ZERO TO INDICATE	F1P06580
00676	U	76000	00000	SERUU	CEM	F12	TARIE IS IN ORDER	F1P06590
00677	O	60100	0//46		310	E12	CET INDEX A TO MIM OF WORDS IN 7TA	F1206600
00700	-0	53400 1	01613		LXD	7TA-1+1	A HORD OF TTA COES TO AC.	F1P06610
00701	0	50000 1	. 00000	SFR01	CLA	0,1	A WORD OF THE GOES TO ACT	F100610
00702	-0	12000 0	00704		TMI	SFR02	COMPARE THIS WORDS IT IS ALPHA ONE	F1PU6620
00703	1	77777 1	00701		TXI	SFR01:1:-1	EXAMINE NEXT WORD OF 7TA	F1P06630
00704	Ō	62100 0	01605	SFR02	STA	E11	SAVE ALPHA ONE FOR COMPARISON	F1P06640
00705	-0	63400 1	01606		SXD	A180X+1	SAVE INDEX FOR RETURN TO ALPHA ONE	F1P06650
00706	-2	00001 1	00762		TNX	SFR21.1.1	EXAMINE NEXT WORD OF 7TA	F1P06660
00707	ñ	50000	00000	SFR03	CLA	0.1	PUT NEXT WORD OF 7TA IN AC.	F1P06670
00710	-0	12000	00713	C. 1100	TMI	SFR05	COMPARE THIS WORD. IT IS ALPHA TWO	F1P06680
00710	-3	12000 0	00762		TYI	SFR21.1.1	EXIT FOR END OF TABLE	F1P06690
00711	-3	77777	00702		TVI	CED03-11	EXAMINE NEXT 7TA WORD	F1P06700
00712	Ţ	71111 1	00707	CEDAS	IVI	31 KUJ919 1	COMPLITE AL PHA TWO	F1P06710
00713	U	76000 0	00003	SFRUD	33F	F11.	MINIC ALDIA ONF	F1P06720
00714	0	40200 0	01605		208	EII	ALDUA ONE TO CMALLED	F1P06730
00715	0	12000	00701		IPL	SFRUI	CIETAL NOT TEDA INDICATES TARIE WAS	F1P06740
00716	0	50000 0	07731		CLA	L(1)	C(E12) NO! ZERO INDICATES TABLE BAS	E100170
00717	0	60100 0	07746		STO	E12	NOT IN ORDER ON THIS PASS.	F1P06750
00720	0	53400 4	07730		LXA	L{0},4	SET INDEX C TO ZERO TO INDEX OTA	F100700
00721	0.	50000 1	00000	SFR06	CLA	G•1	ALPHA TWO GOES TO AC	F1P06770
00722	0	60100 4	04551		STO	OTA+4	SAVE ALPHA TWO	F1P06780
00723	1	77777 1	00724		TXI	SFR07+1+-1	GET NEXT WORD OF ALPHA TWO ENTRY	F1P06790
00724	ō	50000 1	00000	SFR07	CLA	0.1	PUT THIS WORD IN AC	F1P06800
00725	-0	12000 0	00732		IMI	SFR10	ALL WORDS OF ALPHA TWO ENTRY SAVED	F1P06810
00726	1	77777 4	00727		TXI	SFR09,4,-1	GO TO NEXT WORD OF OTA	F1P06820
00120		60100 4	06551	SEROS	STO	OTA+4	SAVE WORDS OF ALPHA TWO ENTRY	F1P06830
00727	- 3	00100 7	00733	J. 1.07	TYI	SFR10+1+1	ALPHA TWO ENTRY IS END OF TABLE	F1P06840
00/30	-,	22222	00132		TVI	CED07-11	FXAMINE NEXT WORD OF 7TA	F1P06850
00/31	Ţ	77111 1	. 00124	65010	1 77	A1007-1	SET INDEX A TO GET ADDR OF ALPHA 1	F1P06860
00732	-0	53400 1	01006	SEKIU	CLA	A18UA71	ALPHA ONE GOES TO AC	F1P06870
00733	0	50000 1	00000	SFRII	CLA	OFD12 6 -1	CO TO NEXT WORD OF OTA	F1P06880
00734	1	77777 4	00735		IXI	5FK12949-1	CAVE ALDUA ONE	F1906990
00735	0	60100 4	04551	SFR12	STO	OTA 94	SAVE ALPHA UNE	F1000070
00736	-0	63400 4	01607		SXD	A2BOX • 4	COMPUTE INDEX FOR	F1006900
00737	0	50000 0	01606		CLA	A1BOX	RETURNING TO ALPHA ONE	F1P06910
00740	0	40000 0	01607		ADD	A2BOX	AFTER TRANSPOSING	F 1506920
00741	0	62200 0	01607		STD	A2BOX	ALPHA ONE AND ALPHA TWO ENTRIES	F TP06930
00742	1	77777 1	00743		TXI	SFR13,1,-1	EXAMINE NEXT WORD OF 7TA	F 1P06940
00742	õ	50000 1	00000	SFR13	CLA	0,1	PUT NEXT WORD IN AC	F1P06950
00744	-0	12000	00750		TMI	SFR15	FINISHED SAVING ALPHA ONE ENTRY	F1P06960
00745	1	77777 4	00744		TXI	SFR14.41	GO TO NEXT WORD OF OTA	F1P06970
00745	Ţ.	40100	00140	CFD14	STO	OTA+4	SAVE WORDS OF ALPHA ONE ENTRY	F1P06980
00 746	Ų	22777	04771	31 1/14	TYT	SER13-1-1	EXAMINE NEXT WORD OF 7TA	F1P06990
00 /47	1	11111 1	00/43	CEDIS	1 00	A1ROYA1	SET INDEX A TO GET ADDR OF ALPHA 1	F1P07000
00750	-0	>3400 1	01000	PLKID	LXU	1.00.3	SET INDEX B TO INDEX OTA	F1P07010
00751	0	53400 2	07730		LXA	L10/12	GET NUMBER OF WORDS IN FRET NUMBER WORDS IN TABLE GO TO AC ADD COMPUTE NUMBER OF WORDS IN TABLE PLUS ORIGIN OF TABLE AND INITIALIZ ADDRESSES SET E12 TO ZERO TO INDICATE TABLE IS IN ORDER. SET INDEX A TO NUM OF WORDS IN 7TA A WORD OF 7TA GOES TO AC. COMPARE THIS WORD. IT IS ALPHA ONE EXAMINE NEXT WORD OF 7TA SAVE ALPHA ONE FOR COMPARISON SAVE INDEX FOR RETURN TO ALPHA ONE EXAMINE NEXT WORD OF 7TA IN AC. COMPARE THIS WORD. IT IS ALPHA TWO EXIT FOR END OF TABLE EXAMINE NEXT 7TA WORD COMPUTE ALPHA TWO MINUS ALPHA ONE ALPHA TWO MINUS ALPHA ONE IS SMALLER C(E12) NOT ZERO INDICATES TABLE WAS NOT IN ORDER ON THIS PASS. SET INDEX C TO ZERO TO INDEX OTA ALPHA TWO GOES TO AC SAVE ALPHA TWO GET NEXT WORD OF ALPHA TWO ENTRY PUT THIS WORD IN AC ALL WORDS OF ALPHA TWO ENTRY ALPHA TWO ENTRY IS END OF TABLE EXAMINE NEXT WORD OF OTA SAVE WORDS OF ALPHA TWO ENTRY ALPHA TWO ENTRY IS END OF TABLE EXAMINE NEXT WORD OF OTA SAVE WORDS OF ALPHA TWO ENTRY ALPHA TWO ENTRY IS END OF TABLE EXAMINE NEXT WORD OF OTA SAVE ALPHA ONE GOES TO AC GO TO NEXT WORD OF OTA SAVE ALPHA ONE GOES TO AC GO TO NEXT WORD OF OTA SAVE ALPHA ONE GOES TO AC GO TO NEXT WORD OF OTA SAVE ALPHA ONE GOES TO AC GO TO NEXT WORD OF OTA SAVE ALPHA ONE ALPHA ONE ENTRY EXAMINE NEXT WORD OF TAA PUT NEXT WORD IN AC FINISHED SAVING ALPHA ONE ENTRY EXAMINE NEXT WORD OF OTA SAVE WORDS OF ALPHA ONE ENTRY EXAMINE NEXT WORD OF OTA SAVE WORDS OF ALPHA ONE ENTRY EXAMINE NEXT WORD OF TAS SET INDEX A TO GET ADDR OF ALPHA 1 SET INDEX A TO GET ADDR OF ALPHA 1 SET INDEX A TO GET ADDR OF ALPHA 1 SET INDEX A TO GET ADDR OF ALPHA 1	

	00752	0	50000	2	04551	SFR16	CLA	OTA 2		ALPHA ONE ENTRY AND ALPHA TWO ENTR	YF1P07020
	00753	0	60100	1	00000	SFR17	STO	0,1		ARE INTERCHANGED	F1P07030
	00754	1	77777	2	00755		TXI	SFR18,2,-1		GO TO NEXT WORD OF OTA	F1P07040
	00755	-2	00001	1	00676	SFR18	TNX	SFR00,1,1		END OF TABLE EXIT	F1P07050
	00756	-3	00001	4	00760		TXL	SFR20,4,1		TEST IF OTA IS EMPTIED	F1P07060
	00757	1	00001	4	00752		TXI	SFR16,4,1		COUNT WORDS TAKEN FROM OTA	F1P07070
	00760	-0	53400	1	01607	SFR20	LXD	A2BOX+1		GET OLD ALPHA ONE AS NEW ALPHA ONE	F1P07080
	00761	0	02000	Ō	00701		TRA	SFR01		START OVER WITH NEW ALPHA ONE	F1P07090
	00762	٥	50000	Õ	07746	SFR21	CLA	E12		TEST IF TABLE IS IN ORDER	F1P07100
	00763	-0	10000	ō	00676		TNZ	SFR00		EXAMINE TABLE AGAIN	F1P07110
		-	••••	•			•	PROGRAM TO REVER	SE FREQUE	NCIES FOR GO TO VECTOR ENTRIES IN	F1P07120
			4					T1FG0			F1P07130
	00764	ο	76400	۵	00222	RETOO	BST	146		MOVE TAPE	F1P07140
	00765	õ	76400	õ	00222	N. 700	BST	146		THRU TABLES	F1P07150
	00766	õ	76400	ñ	00222		BST	146		ALREADY WRITTEN	F1P07160
	00767	ñ	76400	ñ	00222		BST	146		TO OBTAIN	F1P07170
	00770	ň	76400	ň	00222		BST	146		TIFGO	F1P07180
	00771	ň	76400	ň	00222		BST	146			F1P07190
	00777	0	76200	~	00222		POS	146		SELECT TAPE FOR READING	F1P07200
	00772	٥.	50000	ν.	07724		CLA	1 (4)	PREPARE	TO COUNT	F1P07210
	00/13	0	10100	0	01/134		CLA	171	- KEI AKE	TWO TAPE TESTS	F1P07220
	00114	ò	00100	Ď	01010		CDV	E10E		GET TARLE NUMBER	F1P07230
	00775	ō	70000	0	0//4/		CPT	EIRE		AND COMPARE WITH	F1P07240
	00776	Û	50000	Ü	07/4/		CLA	EIRF		TABLE CALLED FOR	F1P07250
	00///	Ü	40200	0	0//45		300	INIZ		TADLE WINDEDS AGDEF	F1P07260
	01000	0	10000	0	01002		IZE	RF IUI		STOD FOR TABLE NOT IN RIGHT RECORD	F1P07270
	01001	0	07400	4	00004		127	DIAG 14		STOP FOR TABLE NOT IN KICKLE	F1P07280
	01002	0	70000	0	04550	RFT01	CPY	OTA-I		SEI NUMBER OF WORDS	F1007200
	01003	0	50000	0	04550		CLA	OTA-1		IN TAPE KECUKU	F1P07290
	01004	0	10000	0	01107		TZE	WFR01		EXIT FOR EMPTT TABLE ON TAPE	E1007300
	01005	0	62200	0	01022		STD	RFT05			FIFUIDIO
	01006	-0	76000	0	00012		RTT			TURN OFF TAPE	F1P07320
	01007	0	76100	0	00000		NOP	•		CHECK INDICATOR AND LIGHTS	F1P07350
	01010	0	53400	2	07730	RFT02	LXA	L(0) •2		SET INDEX B TO ZERO	F 1PU / 340
	01011	0	70000	2	04551	RFT03	CPY	OTA+2			F1P07350
	01012	1	77777	2	01011		TXI	RFT03,2,-1		COPY LOOP	F1P07360
	01013	0	76100	0	00000		NOP			END OF FILE JUMP	F1P07370
	01014	0	76600	0	00333		WRS	219		END OF RECORD. DELAY FOR TAPE TEST	F1P07380
	01015	-0	76000	0	00012		RTT			TAPE TEST	F1P07390
	01016	0	02000	0	01020		TRA	RFT04		TAPE TEST ON	F1P07400
	01017	0	02000	0	01032		TRA	RFT07		TAPE TEST OFF	F1P07410
	01020	0	76400	٥	00224	RFT04	BST	148		REPEAT RECORD	F1P07420
-	01021	0	76200	0	00224		RDS	148		PREPARE TO READ RECORD	F1P07430
	01022	1	00000	2	01023	RFT05	TXI	RFT06,2,**		COMPENSATE FOR REREADING RECORD	F1P07440
	01023	ō	50000	0	01610	RFT06	CLA	IT1		COUNT	F1P07450
	01024	O	40200	٥	07731		SUB	L(1)		TWO	F1P07460
	01025	ŏ	60100	õ	01610		STO	IT1		TAPE TESTS	F1P07470
	01026	ō	70000	ō	07747		CPY	E1RF		ALPHA ONE ENTRY AND ALPHA TWO ENTR ARE INTERCHANGED GO TO NEXT WORD OF OTA END OF TABLE EXIT TEST IF OTA IS EMPTIED COUNT WORDS TAKEN FROM OTA GET OLD ALPHA ONE AS NEW ALPHA ONE START OVER WITH NEW ALPHA ONE TEST IF TABLE IS IN ORDER EXAMINE TABLE AGAIN NCIES FOR GO TO VECTOR ENTRIES IN MOVE TAPE THRU TABLES ALREADY WRITTEN TO OBTAIN TIFGO SELECT TAPE FOR READING TO COUNT TWO TAPE TESTS GET TABLE NUMBER AND COMPARE WITH TABLE CALLED FOR TABLE NUMBERS AGREE STOP FOR TABLE NOT IN RIGHT RECORD GET NUMBER OF WORDS IN TAPE RECORD EXIT FOR EMPTY TABLE ON TAPE TURN OFF TAPE CHECK INDICATOR AND LIGHTS SET INDEX B TO ZERO COPY LOOP END OF FILE JUMP END OF RECORD. DELAY FOR TAPE TEST TAPE TEST TAPE TEST TAPE TEST TAPE TEST ON TAPE TEST OFF REPEAT RECORD PREPARE TO READ RECORD COMPENSATE FOR REREADING RECORD COMPENSATE FOR REREADING RECORD COUNT TWO TAPE TESTS GET TABLE NUMBER GET NUMBER OF WORDS IN TABLE GO TO READ TAPE STOP FOR SECOND TAPE TEST COMPUTE TABLE ORIGIN PLUS NUMBER OF WORDS IN	F1P07480
	01027	Õ	70000	Õ	07747		CPY	EIRF		GET NUMBER OF WORDS IN TABLE	F1P07490
	01020	õ	12000	ñ	01010		TPL	RFT02		GO TO READ TAPE	F1P07500
	01030	õ	07400	4	00004		TSX	DIAG.4		STOP FOR SECOND TAPE TEST	F1P07510
	01033	0	50000	ň	01612	RETO7	CLA	7TA-1		COMPUTE TABLE	F1P07520
	01032	~	77100	0	01013	KI IVI	APS	18		ORIGIN PLUS	F1P07530
	01033	0	11100	~	00022		VU0	TOT7		NUMBER OF	F1P07540
	01034	0	40000	0	01020		CTA-	DETAG		HORDS IN	F1P07550
-	01035 ··	-0	62100	0	0105 7		21 H	KE 107		HOUSE III	

•							
01036 0	62100 0	01072		STA	RFT13	FRET AND	F1P07560
01037 0	62100 0	01103		STA	RFT18	INITIALIZE ADDRESSES	F1P07570
01040 0	50000 0	04550		CLA	OTA-1	GET NUMBER OF WORDS IN 11 FGO	F1P07500
01041 0	77100 0	00022		ARS	18	CURTRACT ONE	F1P07500
01042 0	40200 0	07731		SUB	L(1)	CET INDEX C TO THIS NUMBER	F1P07610
01043 0	73400 4	00000		PAX	0,4	ADD CRICIN OF TIEGO ADD	E1007620
01044 0	40000 0	07750		ADD	1010	INITIALIZE ADDRESS	F1P07630
01045 0	62100 0	01050		SIA	KF 108	INTITALIZE ADDRESS	F1P07640
01046 0	76000 0	00000		CLM	F1057		F1P07650
01047 0	60200 0	01611		SLW	EIKFI	GET EIRST WORD OF TIEGO ENTRY	F1P07660
01050 0	50000 4	00000	KF 108	CLA	U94	CAVE EORMII A NUMBER	F1P07670
01051 0	62200 0	01611		510	EIKT I	ENTDY IS AN IF/F)	F1P07680
01052 -0	12000 0	01056		IMI	KL 103-1	EDASE DECREMENT OF AC	F1P07690
01053 -0	32000 0	0//42		ANA	M3K	TEST FOR GO TO VECTOR ENTRY	F1P07700
01054 0	40200 0	07/32		SUB	L(2)	EVIT FOR ENTRY NOT A GO TO VECTOR	F1P07710
01055 -0	10000 0	01106		INZ	774-1-1	SET INDEX A TO NUM OF WORDS IN FRE	TF 1P07720
01056 -0	53400 1	01013	DETOO		0-1	GET WORD OF FRET ENTRY	F1P07730
01057 0	50000 1	00000	KF 109	TOL	PETIO	TEST FOR FIRST WORD OF ENTRY	F1P07740
01060 0	12000 0	01003		CCD	REIIO	PUT FORMULA NUMBER	F1P07750
01061 0	76700 0	00003		ALS	18	IN DECREMENT OF AC	F1P07760
01062 0	40200 0	01611		SUB	FIRFT	COMPARE FORMULA NUMBERS	F1P07770
01003 0	10000 0	01011		T7F	RFT11	FORMULA NUMBERS MATCH	F1P07780
01065 2	00000 0	01057	RET10	TIX	RFT09•1•1	TEST END OF FRET	F1P07790
01065 2	03000 0	01106	171 120	TRA	RFT20	EXIT FOR END OF FRET	F1P07800
01067 -2	00001 1	01106	RFT11	TNX	RFT20•1•1	PREPARE FOR SECOND WORD OF ENTRY	F1P07810
01070 -0	63400 1	01612	RFT12	SXD	E2RFT+1	AND SAVE INDEX A FOR RETURN	F1P07820
01071 0	53400 2	07730		LXA	L(0),2	SET INDEX B TO ZERO	F1P07830
01072 0	50000 1	00000	RFT13	CLA	0.1	GET FREQUENCY PART OF ENTRY	F1P07840
01073 -0	12000 0	01077		TMI	RFT15	TEST END OF ENTRY	F1P07850
01074 0	60100 2	03172		STO	FRTS+2	SAVE FREQUENCY	F1P07860
01075 1	77777 2	01076		TXI	RFT14,2,-1	TAKE NEXT FRTS WORD	F1P07870
01076 2	00001 1	01072	RFT14	TIX	RFT13,1,1	TAKE NEXT FRET WORD	F1P07880
01077 -3	00000 2	01106	RFT15	TXL	RFT20+2+0	EXIT FOR NO FREQUENCY IN ENTRY	F1P07890
01100 -0	53400 1	01612		LXD	E2RFT+1	SET INDEX A TO GET 2ND ENTRY WORD	F1P07900
01101 1	00001 2	01102	RFT16	TXI	RFT17,2,1	GET FREQUENCIES	F1907910
01102 0	50000 2	03172	RFT17	CLA	FRTS+2	IN REVERSE ORDER	F1P07920
01103 0	60100 1	00000	RFT18	STO	0,1	AND REPLACE IN FREI ENIRY	F1P07930
01104 1	77777 1	01105		TXI	RFT19+1+-1	TAKE NEXT WORD OF FREI ENIRY	F1P07940
01105 3	00000 2	01101	RFT19	TXH	RFT16,2,0	TEST END OF TIEGO	F1P07950
01106 2	00002 4	01050	RFT20	TIX	RFT08+4+2	DOCUTION	F1P07970
01107 0	76200 0	00222	WFR01	RDS	146	POSITION	F107770
01110 0	76200 0	00222		RDS	146	TAPE	F1P07900
01111 0	76200 0	00222		RDS	146	FOR	FIRORODO
01112 0	76200 0	00222		RDS	146	WKI I ING	F1P08010
01113 0	76200 0	00222		KDS	140 HATOO - 1	WDITE	F1P08020
01114 0	07400 1	07656	WFROU	1 OX	WATUUTI	EDET	F1P08030
01115 0	00000 0	00007		MIK	774	ON TAPE	F1P08040
01116 0	00000 0	01614		TCV	71A	ASSEMBLE FOULTA	F1P08050
01117 0	07400 1	07505		134	O CONTRACTOR	FRET AND INITIALIZE ADDRESSES GET NUMBER OF WORDS IN TI FGO PUT IN AC AND SUBTRACT ONE SET INDEX C TO THIS NUMBER ADD GRIGIN OF TIFGO ADD INITIALIZE ADDRESS GET FIRST WORD OF TIFGO ENTRY SAVE FORMULA NUMBER ENTRY IS AN IF(E) ERASE DECREMENT OF AC TEST FOR GO TO VECTOR ENTRY EXIT FOR ENTRY NOT A GO TO VECTOR SET INDEX A TO NUM OF WORDS IN FRE GET WORD OF FRET ENTRY TEST FOR FIRST WORD OF ENTRY PUT FORMULA NUMBER IN DECREMENT OF AC COMPARE FORMULA NUMBERS FORMULA NUMBERS MATCH TEST END OF FRET EXIT FOR END OF FRET YEPPARE FOR SECOND WORD OF ENTRY AND SAVE INDEX A FOR RETURN SET INDEX B TO ZERO GET FREQUENCY PART OF ENTRY TEST END OF ENTRY SAVE FREQUENCY TAKE NEXT FRET WORD EXIT FOR NO FREQUENCY IN ENTRY SET INDEX A TO GET 2ND ENTRY WORD GET FREQUENCIES IN REVERSE ORDER AND REPLACE IN FRET ENTRY TAKE NEXT WORD OF FRET ENTRY TAKE NEXT WORD OF FRET ENTRY TEST END OF ENTRY TEST END OF ENTRY TEST END OF TIFGO POSITION TAPE FOR WRITING FRET WRITE FRET ON TAPE ASSEMBLE EQUIT.	F1P08060
01120 0	00000 0	00010			FO		F1P08070
01121 0	00000 0	04991			PROGRAM FOR CLASSES OF FO	UIVALENCE	F1P08080
					INITIALIZATION OF ADDRESS	ES AND STORAGE	F1P08090

	_	50000	_	04550	CLEO	C1 A	EOM1	COMPUTE EQ ORIGIN PLUS NUMBER OF WORDS IN TABLE AN EQUIVALENCE CLASS SET INDEX A TO NUM OF WORDS EXIT FOR EMPTY EQ TABLE		F1P08100
01122 01123		50000 77100			CLEW	ARS	18	NUMBER OF WORDS IN TABLE		F1P08110
01124		40000				ADD	L(EQ)			F1P08120
01125		62100				STA	B7CLQ			F1P08130
01126	_	62100	-			STA	B8CLQ			F1P08140
01127		62100				STA	B9CLQ			F1P08150
01130		62100	-			STA	B2CLQ			F1P08160
01131		62100				STA	B9CLQ B2CLQ B11CLQ			F1P08170
01132		62100				STA	C2CLQ	•		F1P08180
01133	-	62100	-			STA	C3CLQ A10CLQ			F1P08190
01134		62100				STA	A10CLQ			F1P08200
01135		62100				STA	AliclQ AliclQ AliclQ			F1P08210
01136		62100				STA	A12CLQ			F1P08220
01137	_	62100		4		STA	A13CLQ			F1P08230
•		62100	0	01306		STA	A17CLQ			F1P08240
01141	0	62100	0	01237		STA	C10CLQ			F1P08250
01142	0	76000	0	00000	OADDR	CLM				F1P08260
01143	0	60200	0.	01613		SLW	MEEQM1			F1P08270
01144	. 0	60200	0	01575		SLW	BOX1			F1P08280
01145	. 0	60200	0	01577		SLW	E1CLEQ .			F1P08290
01146	0	60200	0	01600		SLW	E2CLEQ			F1P08300
01147	0	60200	0	01601	٠	SLW	E3CLEQ			F1P08310
		60200				SLW	E4CLEQ			F1P08320
		60200				SLW	E2CLEQ E3CLEQ E4CLEQ E5CLEQ	•		F1P0B330
		53400				LXA	OADDR • 2			F1P08340
01153	-0	53400	4	04550		LXD	EQM1+4			F1P08350
01154	0	60200	2	01614	G2CLQ	SLW	MEEQ.2			F1P08360
		77777				TXI	G1CLQ+2+-1			F1008310
01156		00001			GICLQ	TIX	G2CLQ+4+1			F1000000
01157	_	50000	-			CLA	DECR1			F1P00390
01160	0	60100	0	01576		STO	BOX2	AN FOUTUAL ENGE OLACE	,	F1F08400
			_				INITIALIZATION OF	AN EQUIVALENCE CLASS		F1P00410
01161	-0	53400	1	04550	BOCLQ	LXD	EQM1+1	SEL INDEX A TO NOM OF WORDS	IN EU	F1P00420
01162	-3	00000	1	01454		IXL	0019190	DOCUME TO ENTED		F1P08440
01163	-0	53400	2	01576		LXD	BUX292	A WOOD IN MEED		F1P08450
01164	1	77177	2	01165	07610	IXI	B/CLU929~1	OPTAIN FO WORD		F1P08460
01165	0	50000	ĭ	00000	BICLO	TZE	DEC! O	EXIT FOR DELETED FO SET		F1P08470
01166	0	10000	õ	01212		670	MEEO.2	CAVE FO SET IN TARIE MEFO		F1P08480
01167		60100	4	01014		SIO	MEEGIZ	INDICATE		F1P08490
011/0		16000	٥	00000	88610	CLM	0.1	DELETED		F1P08500
01171	0	27777	7	00000	BOCLW	TVI	B1C1 0 - 2 1	FO SFT		F1P08510
01172	ī	00001	4	01113	PICLO	TNY	0-1-1	FYIT FOR FND OF FO TABLE		F1P08520
01173	~2	50001	ì	00000	BICLO	CLA	0.1	ORTAIN FO SURSCRIPT		F1P08530
01174		12000	7	01306	BZCEW	TMI	84610	FYIT FOR FND OF FO SFT		F1P08540
01175	-0	60100	٥	01200		STO	MEEQ.2	SAVE REST OF EQ SET		F1P08550
01176	1	77777	1	01200		TYI	ROCI Qa 1 a m 1	Crite had of all day		F1P08560
01300	1	F0000	1	01200	B9CLO	CIV	0.1	ORTAIN EQ SYMBOL		F1P08570
01200	1	77777	2	01202	DICLW	TYI	B10CLQ+2+-1	ADIMAN MM DIVIDAD		F1P08580
01201	7	60100	2	01614	BIOCEO	STO	MEEQ.2	. *		F1P08590
01202		77777	2	01204	DIVCEG	TXI	B3CLQ+2+-1	IN TABLE MEEQ		F1P08600
01202	2	00001	ī	01174	B3CL0	TIX	B2CLQ•1•1	AN EQUIVALENCE CLASS SET INDEX A TO NUM OF WORDS EXIT FOR EMPTY EQ TABLE PREPARE TO ENTER A WORD IN MEEQ OBTAIN EQ WORD EXIT FOR DELETED EQ SET SAVE EQ SET IN TABLE MEEQ INDICATE DELETED EQ SET EXIT FOR END OF EQ TABLE OBTAIN EQ SUBSCRIPT EXIT FOR END OF EQ SET SAVE REST OF EQ SET OBTAIN EQ SYMBOL IN TABLE MEEQ EXIT FOR END OF EQ TABLE SAVE LAST		F1P08610
01204	0	02000	ô	00000	JJ424	TRA	**	EXIT FOR END OF EQ TABLE		F1P08620
01202	- 0	76000	<u>.</u>	-00000	-84CI-O	SSP		SAVE LAST		F1P08630
01200	U	16000	•	00003	DACEG	J 0.				

•								,		
	01207	0	60100	2	01614		STO	MEEQ,2	SUBSCRIPT OF EQ SET AND ITS MEEQ INDEX GO TO COMPARISON ROUTINE LOOP TO GO THROUGH DELETED SET EXIT FOR COMPLETELY DELETED EQ TAB S WITH EQ SYMBOLS	F1P08640
	01210	-0	63400	2	01576		SXD	BOX2 • 2	AND ITS MEED INDEX	F1P00650
	01211	0	02000	0	01220		TRA	COCLQ	GO TO COMPARISON ROUTINE	F1P08660
	01212	1	77777	1	01213	B5CLQ	TXI	B11CLQ+1+-1		F1P00610
	01213	0	50000	1	00000	B11CLQ	CLA	0.1	LOOP TO	F1P00600
	01214	0	12000	0	01216		TPL	B6CLQ	GO THROUGH	F1000300
	01215	2	00001	1	01165		TIX	B7CLQ+1+1	DELETED SET	F1P08700
	01216	2	00002	1	01213	B6CLQ	TIX	B11CLQ,1,2		F1P00110
	01217	0	02000	0	01360		TRA	END	EXIT FOR COMPLETELY DELETED EG TAB	E1000720
								COMPARISON OF MEEQ SYMBOLS	S WITH EQ SYMBOLS	F1P08730
	01220	-0	53400	2	01576	COCLQ	LXD	BOX2 • 2	INITIALIZE TEST	F100740
	01221	-0	63400	2	01253		SXD	C5CLQ+2	FOR END OF MEED TABLE	F1F08750
	01222	-0	53400	2	01575		LXD	BOX1 • 2	SET INDEX B TO GET 1ST SYMB OF MEE	E1000770
	01223	-0	53400	1	04550	C6CLQ	LXD	EQ-1,1	PREPARE TO SCAN EQ TABLE	F1000700
	01224	-0	63400	1	01577	C7CLQ	SXD	E1CLEQ,1	SAVE INDEX OF 1ST WORD OF EQ SET	F1P08780
	01225	0	50000	1	00000	C2CLQ	CLA	0,1	OBTAIN EQ WORD	F1000000
	01226	-0	10000	0	01235		TNZ	C4CLQ	SET NOT DELETED	F100000
	01227	1	77777	1	01230		TXI	C3CLQ+1+=1		F1P08810
	01230	0	50000	1	00000	C3CLQ	CLA	0.1	LOOP TO GO THRU	F1P08820
	01231	-0	12000	0	01233		TMI	CICLQ	DELETED SET	F1P08830
	01232	2	00002	1	01230		TIX	C3CLQ+1+2		F1P08840
	01233	2	00001	1	01224	CICLO	TIX	C7CLQ+1+1	EXAMINE NEXT EQ SET	F1P08850
	01234	0	02000	0	01252		TRA	C9CLQ	EXIT FOR END OF EQ TABLE	F1908860
	01235	0	60100	0	01603	C4CLQ	STO	ESCLEQ	SAVE EQ SYMBOL	F1P08870
	01236	1	77777	1	01237		TXI	C10CLQ+1+-1		F100000
	01237	0	50000	1	00000	C10CLQ	CLA	0.1	GET EQ SUBSCRIPT	F1P08890
	01240	0	12000	0	01246		TPL	C8CLQ	NOT END OF EQ SET	F1P00900
	01241	.0	50000	0	01603		CLA	ESCLEQ	GET LAST SYMBOL OF EQ SET	F1P09910
	01242	. 0	40200	2	01614		SUB	MEEQ , 2	COMPARE WITH MEEU STMBOL	F100920
	01243	0	10000	0	01263		TZE	AOCLQ	MATCH	F1P08930
	01244	2	00001	1.	01224		TIX	C7CLQ+1+1	NO MATCH	F1P00740
	01245	0	02000	0	01252		TRA	C9CLQ		E100930
	01246	0	50000	0	01603	C8CLQ	CLA	ESCLEQ		F100900
	01247	0	40200	2	01614		SUB	MEEQ • 2		E100910
	01250	0.	10000	0	01263		TZE	AOCLQ	•	F100900
	01251	2	00001	1	01225		TIX	C2CLQ+1+1	ATT HENT WEED CHIED	F1P00990
	01252	1	77776	2	01253	C9CF6	TXI	C5CLQ+2+-2	GET NEXT MEED STMBUL	F1P00010
	01253	3	00000	2	01223	C5CLQ	TXH	C6CLQ,2,**	TEST END OF TABLE MEEQ	E100020
								END OF TABLE MEEQ, NO MAI	THREE EQ	F1P09020
	01254	~ 0.	53400	2	01576	F2CLQ	LXD	BOX2 • 2	INDICATE	F1P09050
3	01255	~ O	50000	2	01614		CLA	MEEQ 9 2	END OF SET	F1P09050
	01256	-0	76000	0	00003		SSM		IN IABLE	F1P09050
	01257	0	60100	2	01614		STO	MEEQ.2	MECU	F1P09070
	01260	1	77777	2	01261		IXI	F1CL0,2,-1	INITIALIZE INDEA OF	F1P09080
	01261	-0	63400	2	01575	F1CLQ	SXD	BOX1,2	NEXT SET IN TABLE MELY AND	E100000
	01262	0	02000	0	01161		TRA	BOCLO	INITIALIZE THE SET	E1000100
		,					•	MEEU STMBUL MAICHES EQ SYN	EXIT FOR COMPLETELY DELETED EQ TAB S WITH EQ SYMBOLS INITIALIZE TEST FOR END OF MEEQ TABLE SET INDEX B TO GET 1ST SYMB OF MEE PREPARE TO SCAN EQ TABLE SAVE INDEX OF 1ST WORD OF EQ SET OBTAIN EQ WORD SET NOT DELETED LOOP TO GO THRU DELETED SET EXAMINE NEXT EQ SET EXIT FOR END OF EQ TABLE SAVE EQ SYMBOL GET EQ SUBSCRIPT NOT END OF EQ SET GET LAST SYMBOL OF EQ SET COMPARE WITH MEEQ SYMBOL MATCH NO MATCH GET NEXT MEEQ SYMBOL GET NEXT MEEQ SYMBOL TEST END OF TABLE MEEQ INDICATE END OF SET IN TABLE MEEQ INITIALIZE INDEX OF NEXT SET IN TABLE MEEQ AND INITIALIZE THE SET 4BOL SAVE EQ INDEX OF MATCHED SYMBOL	F1P00110
	01263	1	00001	1	01264	AOCLQ	IXI	WI4CFG)191	CAVE SO THINEY OF MATCHEN SYMPOL	E1P00120
	01264	-0	63400	1	01314	A14CLQ	SXD	ACCLU-1	SAVE EN THREY OF MATCHED STRIOOF	F1P00130
	01265	2	00001	1	01266		TIX	AICLU, I, I		F1P09140
	01266	1	77777	2	01267	AICLQ	IXI	AZCLU\$Z\$*I		F1P09150
	01267	0	50000	2	01614	AZCLQ	CLA	MEDU \$2	CAVE CHRECOIPT OF MEED SYMBOL	F1P09160
	01270	0	62100	Ç	01600		SIA	CALLER .	SMAE SADSCUTLI OF MEEK STANDAR	F1P09170
	01271	0	50000	1	00000	MINCEG	CLA	911	SAVE EQ INDEX OF MATCHED SYMBOL SAVE SUBSCRIPT OF MEEQ SYMBOL	

						'_'_		E1000100
01272	0	62100 0	01601		STA	E3CLEQ	SAVE SUBSCRIPT OF EQ STMBOL	F1F09160
01273 -	٠0	53400 2	01576		LXD	BOX2 • 2		F1503130
01274	ī	77777 2	01275		IXT	A16CLQ+2+-1		F1P09200
01275 -		63400 2	01356	ATACLO	SXD	F1CLQ+2		F1P09210
01275	•	00000 2	01377	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	TYI	A15CLQ+2+1		F1P09220
01276	Ţ	00001;2	01211	435610	TMI	ACCIO	MATCHED SYMBOL IS END OF EQ SET	F1P09230
01277 -	-0	12000 0	01313	AISCLU	IMI	AYCLU	LOOD TO TRANSFER	F1909240
01300	1	77777 2	01301	A4CLQ	IXI	A3CLQ+2+-1	LOUP TO TRANSFER	F100250
01301 -	-2	00001 1	00000	A3CLQ	TNX	0,1,1	TO MEED SYMBOLS OF	F1F09Z30
01302	0	50000 1	00000	A11CLQ	CLA	0,1	EQ BELOW MATCHED SYMBOL	P1P09260
01303	0	60100 2	01614		STO	MEEQ • 2		F1P09270
01304 -	-2	00001 1	00000		TNX	0.1.1		F1P09280
01305	7	77777 2	01306		TXI	A17CLQ+2+-1		F1P09290
01305	ñ	50000 1	00000	A17CLQ	CLA	0 • 1		F1P09300
01300	. 0	12000 1	01313	W21654	TMI	ASCIO	•	F1P09310
01307 -	••	12000 0	01512		STO	MEED 2		F1P09320
01310	U	60100 2	01614		310	MCEW92		F1P00330
01311	0	02000 0	01300		IKA	A4CLU	CAUE COCCO OF LIACT CAMBOL OF EO	CETE 1000340
01312	0	62100 2	01614	A5CLQ	STA	MEEQ • 2	SAVE SBSCK OF LAST STMBOL OF EN	51000050
01313 -	-0	53400 1	01577	A9CLQ	LXD	E1CLEQ.1		P1P09350
01314 -	-3	00000 1	01321	A6CLQ	TXL	A8CLQ+1+**	EXIT FOR MATCHED SYMBOL REACHED	F1P09360
01315	ō.	50000 1	00000	A12CLQ	CLA	0+1	LOOP TO TRANSFER	F1P09370
01316	1	77777 2	01317		TXI	A7CLQ+2+-1	TO MEEQ SYMBOLS OF	F1P09380
01313	•	60100.2	01614	A7CLO	STO	MEEQ.2	EQ ABOVE MATCHED	F1P09390
01317	Ų	22222	01014	AICEG	TVI	A6CL O- 3 3	SYMBOI	F1P09400
01320	1	IIIII L	01514		1 V 1	NOCEMPIP-I		F1P09410
01321 -	-0	63400 2	012/6	ABCLG	270	DUAZ 9 Z		F1900420
01322 ~	-0	63400 2	01343		SXD	DZCLQ+Z		E1000420
01323 -	-0	63400 2	01336		SXD	D4CLQ+2		F1P09430
01324 ~	-0	53400 1	01577		LXD	E1CLEQ:1	INDICATE	F1P09440
01325	0	76000 0	00000		CLM		DELETED	F1P09450
01326	0	60200 1	00000	A13CLQ	SLW	0.1	EQ SET	F1P09460
01320	•					NORMALIZATION OF MEEQ SUB	SCRIPTS	F1P09470
01227	Λ	50000 0	01601		CIA	F3CLEQ	GET EQ SUBSCRIPT	F1P09480
01327	٥.	40300 0	01601		SUR	E2CLEO	COMPARE WITH MEED SUBSCRIPT	F1P09490
01330	Õ	40200 0	01000		T25	COCI O	SURSCRIPTS MATCH	£1209500
01331	0	10000 0	01220		125	COCEW	SOUSCRIP IS PIRITEI	F1P00510
01332	0 "	62100 0	01602		SIA	EACLEG		E1900520
01333	0	12000 0	01350		IPL	EUCLW	TO CURCOLINE	F100530
						EQ SUBSCRIPT LESS THAN MET	EG SUBSCRIPT	E1000540
01334 -	-0	53400 2	01356		LXD	E1CLQ,2		F1P09540
01335	1	77777 2	01336		TXI	D4CLQ,2,-1		F 1709550
01336 -	-3	00000 2	01344	D4CLQ	TXL	D3CLQ,2,**		F1P09560
01337	Ď.	50000 2	01614	D1CLQ	CLA	MEEQ+2	NORMALIZE SUBSCRIPTS	F1P09570
01360	ŏ	40000 0	01602		ADD	F4CLEQ	OF NEW SYMBOLS	F1P09580
01340	ŏ	42100 2	01614		STA	MEEQ.2	IN MEEQ SET	F1P09590
01541	Ų.	02100 2	01017		TVI	D2CL 0+2+=2	-,,, -, -, -, -, -, -, -, -, -, -,	F1P09600
01342	Ţ	11116 2	01242	D2C! 0	TVU	01(10.2.**		F1P09610
01343	3	00000 2	01337	DZCLQ	IXH	DICLU32377	NADMAL TOE CHRECOIDT	F1P09620
01344	0	50000 2	01614	D3CLQ	CLA	MEEQ 92	NORMALIZE SUBSCRIPT	E100020
01345	0	40000 0	01602		ADD	E4CLEQ	UP LAST NEW STMBUL	E 1000(40
01346	0	62100 2	01614		STA	MEEQ • 2	ENTERED IN MEEQ SET	F1PU9040
01347	0	02000 0	01220		TRA	COCLQ	GO TO COMPARISON ROUTINE	F1PU9650
						EQ SUBSCRIPT GREATER THAN	MEEQ SUBSCRIPT	F1P09660
01350	-0	53400 2	01575	EQCLQ	LXD	BOX1.2		F1P09670
01350 -	1	77777 2	01353		TYI	F2C1 0+2+=1		F1P09680
01321	1	50000	01222	E2CL 0	CLA	MEEO.2	NORMALIZE SUBSCRIPTS	F1P09690
01352	Ü	50000 2	01014	EZCLQ	ACC	MCEM 14	OF OLD SYMBOLS	F1P09700
01353	0	40000 0	01602		AUU	CHCLEW	TH MEEN CET	F1P00710
01354	0	62100 2	01614		SIA	MEEUJZ	MATCHED SYMBOL IS END OF EQ SET LOOP TO TRANSFER TO MEEQ SYMBOLS OF EQ BELOW MATCHED SYMBOL OF EQ EXIT FOR MATCHED SYMBOL REACHED LOOP TO TRANSFER TO MEEQ SYMBOLS OF EQ ABOVE MATCHED SYMBOL OF EQ ABOVE MATCHED SYMBOL INDICATE DELETED EQ SET SCRIPTS GET EQ SUBSCRIPT COMPARE WITH MEEQ SUBSCRIPT SUBSCRIPTS MATCH EQ SUBSCRIPT NORMALIZE SUBSCRIPT OF NEW SYMBOLS IN MEEQ SET GO TO COMPARISON ROUTINE MEEQ SUBSCRIPT NORMALIZE SUBSCRIPT OF LAST NEW SYMBOL ENTERED IN MEEQ SET GO TO COMPARISON ROUTINE MEEQ SUBSCRIPT NORMALIZE SUBSCRIPTS OF OLD SYMBOLS IN MEEQ SET GO TO COMPARISON ROUTINE MEEQ SUBSCRIPT	
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•								E1000720
01355 1	77776	2	01356		TXI	E1CLQ,2,-2		F1P09720
01356 3	00000	2	01352	EICLQ	TXH	E2CLQ,2,**	CO TO COMPUNICON POUTINE	F109730
01357 0	02000	0	01220		TRA	COCLO	GO TO COMPARISON ROUTINE	F1007750
01360 0	50000	0	01576	END	CLA	BOX2	COMPUTE	F1007750
01361 0	.76000	O	00006		COM		NUMBER	E1000770
01362 0	40000	0	07741		ADD	DECR2	OF WORDS	F100770
01363 -0	73400	2	00000		PDX	0+2	IN TABLE	F1P09700
01364 -0	75400	2.	00000		PXD	0,2	MEEQ AND	E1000000
01365 0	62200	٥	01613		STD	MEEQM1	SAVE WITH TABLE	F1000010
						REDUNDANCY	AND INCONSISTENCY TEST OF EQUIVALENCE SENTENCES	F1000010
01366 -0	53400	2	01576		LXD	BOX2,2	INITIALIZATION	F1000020
01367 -0	63400	2	01417		SXD	M11CLQ,2	OF	F1P09830
01370 0	53400	2	01142		LXA	OADDR • 2	INDEXING	F1P09840
01371 -0	63400	2	01575		SXD	BOX1 • 2		E3:000000
01372 -0	53400	2	01575	M6CLQ	LXD	BOX1,2	OBTAIN	F1P09860
01373 0	50000	2	01614		CLA	MEEQ • 2	FIXED	F1P09870
01374 0	60100	0	01577		STO	SMBL	SYMBOL	F1P09880
01375 1	77777	2	01376		TXI	M10CLQ,2,-1	AND	F1P09890
01376 0	50000	2	01614	MIOCLQ	CLA	MEEQ + 2	ITS	F1P09900
01377 0	60100	0	01600		STO	SBSCR	SUBSCRIPT	F1009910
01400 1	77777	2	01401		IXI	M1CLQ,2,-1	,	F1P09920
01401 0	50000	2	01614	M1CLQ	CLA	MEEQ , 2	GET CHANGING SYMBOL AND	F1P09930
01402 0	34000	0	01577		CAS	SMBL	COMPARE WITH FIXED SYMBOL	F1P09940
01403 0	02000	0	01405		TRA	M2CLQ	NO MATCH	F1P09950
01404 0	02000	0	01423		TRA	K1CLQ	MATCH	F1P09960
01405 1	77777	2	01406	M2CLQ	TXI	M3CLQ,2,-1	HAS END OF CHANGING SYMBOLS	F1P09970
01406 0	50000	2	01614	M3CLQ	CLA	MEEQ,2	BEEN REACHED, NO MATCH CASE	F1909980
01407 -0	12000	0	01411		TMI	M4CLQ	YES	F1PU9990
01410 1	77777	2	01401		IXT	M1CLQ+2,-1	NO ·	F1P10000
01411 -0	63400	2	01416	M4CLQ	SXD	M7CLQ+2		F1P10010
01412 -0	53400	2	01575	M9CLQ	LXD	BOX1•2	PREPARE TO GET	F1P10020
01413 1	77776	2	01414		IXI	M5CLQ,2,-2	NEXT FIXED	F1P10030
01414 -0	63400	2	01575	M5CLQ	SXD	BOX1 • 2	SYMBOL	F1P10040
01415 1	77777	2	01416		TXI	M7CLQ+2+-1		F1P10050
01416 3	00000	2	01372	M7CLQ	TXH	M6CLQ,2,**	TEST END OF MEED SET	F1P10060
01417 -3	00000	2	01450	M11CLQ	TXL	CLQOUT +2 +0		F1P10070
01420 1	77777	2	01421		ŦXI	M8CLQ,2,-1		F1P10080
01421 -0	63400	2	01575	M8CLQ	SXD	BOX1:2		F1P10090
01422 0	02000	0	01372		TRA	M6CLQ	·	F1P10100
01423 1	77777	2	01424	K1CLQ	TXI	K2CLQ,2,-1 .	GET SUBSCRIPT	FIPIOTIO
01424 0	50000	2	01614	K2CLQ	CLA	MEEQ , 2	OF CHANGING SYMBOL	F1P10120
01425 -0	12000	0	01443		TMI	K4CLQ	END OF SET REACHED	F1P10130
01426 0	34000	0	01600		CAS	\$BSCR	COMPARE SUBSCRIPTS OF MATCHED SYMBL	F1P10140
01427 0	02000	0	01431		TRA	K3CLQ	NO MATCH. INCONSISTENT CASE	F1P10150
01430 1	77777	2	01401		IXT	M1CLQ,2,-1	MATCH REDUNDANT CASE	F1P10160
01431 -0	53400	4	01442	K3CLQ	LXD	NEWTBL ,4		F1P10170
01432 3	00000	4	01435		TXH	ERSTOR +4 +0.		F1P10180
01433 0	50000	0	07743		CLA	FRCON	, .	F1P10190
01434 0	60100	0	01614		STO	MEEQ	GO TO COMPARISON ROUTINE COMPUTE NUMBER OF WORDS IN TABLE MEEQ AND SAVE WITH TABLE AND INCONSISTENCY TEST OF EQUIVALENCE SENTENCES INITIALIZATION OF INDEXING OBTAIN FIXED SYMBOL AND ITS SUBSCRIPT GET CHANGING SYMBOL AND COMPARE WITH FIXED SYMBOL NO MATCH HAS END OF CHANGING SYMBOLS BEEN REACHED, NO MATCH CASE YES NO PREPARE TO GET NEXT FIXED SYMBOL TEST END OF MEEQ SET GET SUBSCRIPT OF CHANGING SYMBOL END OF SET REACHED COMPARE SUBSCRIPTS OF MATCHED SYMBL NO MATCH, INCONSISTENT CASE MATCH, REDUNDANT CASE	F1P10200
01435 0	50000	0	01577	ERSTOR	CLA	SMBL	·	F1510510
01436 0	60100	4	01615		STO	MEEQ+1+4		F1P10220
01437 1	77777	4	01440		IXI	SAVIR4,4,-1		F1P10230
01440 -0	63400	4	01442	SAVIR4	SXD	NEWTBL .4		F 1P10240
01441 0	02000	0	01412		TRA	M9CLQ	GET NEXT SYMBOL	F 1510520
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	01442 0	00000 0	00000	NEWTBL	HTR	0		*	E CLOSUB LE 9 FROM TABLE CLOSUB WORDS IN 9TA Y TABLE O NUM OF WORDS IN 9T	F1P10260
	01443 0	76000 0	00003	K4CLQ	S SP					F1P10270
	01444 0	34000 0	01600		CAS	SBSCR				F1P10280
	01445 0	02000 0	01431		TRA	K3CLQ				F1P10290
	01446 0	02000 0	01412		TRA	MOCLQ				F1P10300
	01440 0	02000.0	01431		TRA	K3CLQ				F1P10310
	01441 0	52600 6	01431	CLOOUT	IXD	NEWTRI .4				F1P10320
	01450 -0	22400 4	01442	(2000)	TYI	OUTAGE				F1P10330
	01451 -3	50000 4	01424			EDCON		•		F1P10340
	01452 0	50000 0	0//43		CLA	MEEO LI . A				F1P10350
	01453 0	60100 4	01615		310	MEEUTIST		WRITE FOULT O	N TAPE.	F1P10360
	Q 1454 0	07400 1	07656	001	124	WATOOTI		WRITE EWOIT C	W 170 C4	F1P10370
	01455 0	00000 0	00010			8				F1910380
	01456 0	00000 0	01614			MEEQ		ACCEMBLE TABL	E CLOSUB	F1P10300
	01457 0	07400 1	07505		TSX	TAP00+1		ASSEMBLE TABL	E CLUSUB	£1010400
	01460 0	00000 0	00011			9				F1P10400
	01461 0	00000 0	01614	TOT9		9TA		ORIGIN OF TAB	LE 9	F1P10410
						PROGRAM FOR	REMOVING DUP	PLICATE ENTRIES	FROM TABLE CLOSUB	F1P10420
	01462 0	50000 0	01613	RDCTP	CLA	9TA-1		GET NUMBER OF	WORDS IN 91A	F1P10430
	01463 0	10000 0	01514		TZE	REC07		EXIT FOR EMPT	Y TABLE	F1P10440
	01464 -0	73400 4	00000		PDX	0,4		SET INDEX C T	O NUM OF WORDS IN 91	A F1P10450
	01465 0	77100 0	00022		ARS	18		COMPUTE TABLE	ORIGIN PLUS	F1P10460
	01466 0	40000	01461		ADD	TOT9		NUMBER OF WOR	DS IN TABLE	F1P10470
	01467 0	43100 0	01471		STA	RECO1		AND INITIALIZ	E ADDRESS	F1P10480
	01407 0	52100 0	01477		1 40	DECO3.2		SET INDEX B T	O COMP 1 AND	F1P10490
	01470 -0	53400 2	014//		SYD	DECO442		SAVE COMP 1 I	N DECR OF RECO4	F1P10500
	01471 -0	63400 2	01500	05600	300	1 (0) 42		SET INDEX R T	0 7FRO	F1P10510
	01472 0	53400 2	0//30	RECOU	CAA	0.4		GET GTA WORD	AND	F1P10520
	01473 0	50000 4	00000	RECUI	CLA	014		COMPARE WITH	OTA WORD	F1P10530
	01474 0	34000 2	01614	REC02	CAS	91A,2		COMPARE WITH	FOULL	F1P10540
	01475 0	02000 0	01477		TRA	REC03		OTA HORDS ADE	EQUAL	F1010550
	01476 0	02000 0	01505		TRA	REC06		91A WORDS ARE	HODO	F1P10550
	01477 1	77777 2	01500	REC03	TXI	REC04,2,-1		TAKE NEXT 91A	WORD	F1P10300
	01500 3	00000 2	01474	REC04	TXH	REC02,2,**		IEST FOR END	OF NEW SIA TABLE	F1F10570
	01501 -0	53400 1	01500		LXD	RECO4+1		ADD COMP 1 TO	DECR OF	F1P10500
-	01502 1	77777 1	01503		TXI	REC05,1,-1		RECO4 TO ACCO	UNT FOR	F1P10590
	01503 -0	63400 1	01500	REC05	SXD	REC04+1		FOLLOWING ENT	RY	F1P10600
	01504 0	60100 2	01614		STO	9TA • 2		ENTER UNEQUAL	9TA WORD IN TABLE	F1P10610
	01505 2	00001 4	01472	REC06	XIT	REC00,4,1		TEST END OF O	LD 9TA TABLE	F1P10620
	01506 -0	53400 .4	01500		LXD	REC04+4		GET TWOS COMP	OF NUMBER	F1P10630
	01507 -0	75400 4	00000		PXD	0.4		OF WORDS ENTE	RED IN 9TA	F1P10640
	01510 0	76000 0	00006		COM			COMPUTE TRUE	FIGURE AND	F1P10650
	01510 0	40000 0	07733		ADD	1 (1)		STORE IN 9TA-	1	F1P10660
	01511 0	72400 4	00000		BUX	0.4			•	F1P10670
	01215 -0	13400 4	01613		CAU	074-1-4				F1P10680
	01513 -0	63400 4	01013	05507	TCV	WATOO . 1		WRITE MODIFIE	D	F1P10690
	01514 0	07400 1	0/656	RECUI	137	WATOOFI		TARLE CLOSUR		F1P10700
	01515 0	00000 0	00011		HIK	9		ON TAPE		F1P10710
	01516 0	00000 0	01614		HIK	YIA		END OF TARE T	ARIES ETIE	F1P10720
	01517 0	77000 0	00222		WEF	146		END OF TAPE I	WOLES FILE	E1010720
	01520 0	77200 0	00203		REW	3			E TO UDITE ON TARE O	E1D10740
	01521 0	50000 0	01573		CLA	WAT99	CHANGE	WAT SUB ROUTIN	E TO WELLE ON TAPE 3	F1P10740
	01522 0	62100 0	07661		STA	WATO9				F1P10750
	01523 0	62100 0	07701		STA	WATO5+2			•	F1P10760
	01524 0	62100 0	07704		STA	WAT07-1			FROM TABLE CLOSUB WORDS IN 9TA Y TABLE O NUM OF WORDS IN 9TO ORIGIN PLUS DS IN TABLE E ADDRESS O COMP 1 AND N DECR OF RECO4 O ZERO AND 9TA WORD EQUAL EQUAL WORD OF NEW 9TA TABLE DECR OF UNT FOR RY 9TA WORD IN TABLE LD 9TA TABLE OF NUMBER RED IN 9TA FIGURE AND 1 D ABLES FILE E TO WRITE ON TAPE 3	F1P10770
	01525 0	62100 0	07721		STA	WATO8				F1P10780
	V125 0	50000 0	07703		CLA	WAT05+4	NOP		*	F1P10790
	01250 0	20000 0	01103					•		

01527 0	60100 0	07673		STO	WATO4-1	OVER COPY IDENTIFICATI	ON	F1P10800
	60100 0			STO	WATO4	OVER COPY WORD COUNT		F1P10810
•	60100 0			STO	WAT03-1	OVER STA FOR WORD COUN	T	F1P10820
	50000 0			CLA	TP3TRA	•		F1P10830
42200 -	60100 0			STO	WAT04+2			F1P10840
				TCY	TAROO-1	ASSEMBLE NONEXC TABLE	•	F1P10850
•	07400 1			134	14-0071	ASSEMBLE MONERE TABLE		F1P10860
	00000 0							F1P10870
•	00000 0				XTA	LOSS NONEYS TABLE ON	****	
01537 0	07400 1	07656		TSX	WATOO,1	MELLE MONEXC LABLE ON	TAPE 3	F1P10880
01540 0	00000 0	00016			14	WRITE NONEXC TABLE ON ASSEMBLE TSTOPS TABLE		F1P10890
01541 0	00000 0	01614			XTA			F1P10900
01542 0	07400 1	07505		TSX	TAP00+1	ASSEMBLE TSTOPS TABLE		F1P10910
	00000 0				15	•		F1P10920
	00000 0				XTA			F1P10930
• • • • • •	07400 1			TSX	WAT00+1	WRITE TSTOPS TABLE AS	SECOND RECORD TAPE 3	F1P10940
~ · · ·	00000 0				15			F1P10950
• • • • • •					VTA			F1P10960
	00000 0			٠	51510		:	F1P10970
01550 0				CLA	EIFNO	CCT E1540 TO 1 45T 400	THE DOOD! EN DELISE 1	F1P10980
	40000 0			ADD	DECR1	SEI EIFNU IU LASI ADD	IN PROBLEM PLOS. I	F1P10990
	60100 0			\$10	EIFNO			F1P10990
01553 -0	50000 0	07741		CAL	DECR2		•	F1P11000
01554 0	76000 0	00006		COM				F1P11010
01555 0	32000 0	00020		ANS	16		•	F1P11020
01556 0	50000 0	00034		CLA	ENDI4		•	F1P11030
	34000 0			CAS	L(1)			F1P11040
	02000 0			TRA	*+4			F1P11050
	50000 0			CLA	DECR2			F1P11060
01562 -0				ORS	16			F1P11070
01563 0				TRA	SPACE			F1P11080
01564 -0				PXD	•0			F1P11090
	76000 0			SWT	4			F1P11100
				TDA	SPACE			F1P11110
	02000 0				DECES			F1P11120
01567 0				CLA	DECR2			F1P11130
01570 -0				ORS	16			F1P11140
	76200 0			RTB	1		•	E1011160
01572 0	02000 0	00004		TRA	4			F1P11150
01573 0	00000 0	00223	WAT99		147	ADD OF TAPE 3 IN BINAR	Y MODE	F1P11160
					WORKING STORAGE	FOR PROGRAM CLEQ		F1P11170
01574 0	00000 0	04551	L(EQ)		EQ			F1P11180
	00000 0	00000	BOX1				•	F1P11190
	00000 0	00000	BOX2					F1P11200
	00000 0						•	F1P11210
• • • • • • • • • • • • • • • • • • • •	00000 0					:		F1P11220
	00000 0							F1P11230
	00000 0							F1P11240
								F1P11250
01603 0	00000 0	00000	ESCEEM		WORKING STOPA	ASSEMBLE TSTOPS TABLE WRITE TSTOPS TABLE AS SET EIFNO TO LAST ADD ADD OF TAPE 3 IN BINAR FOR PROGRAM CLEO GE FOR PROGRAM AMW AMW2105		F1P11260
			510		HORKING STORA	OL TOR FROORING ARM		F1P11270
• • • • • •	00000 0		510			AMMOTAE		F1P11280
•	00000 0		£11			AMM 2102		F1P11290
	00000 0		AIBOX			AMW 2106		
	00000 0		A2B0X			AMW 2305		F1P11300
	00000 0		IT1			AMW 2510		F1P11310
01611 0	00000 0	00000	E1RFT					F1P11320
01612 0	00000 0	00000	E2RFT			GE FOR PROGRAM AMW AMW2105 AMW 2106 AMW 2305 AMW 2510		F1P11330

```
F1P11340
                01613 END1PB ORG 907
                                                                                             F1P11350
                01613 XTAM1 BSS 1
                                                THIS IS TABLE ASSEMBLY BUFFER OF PART 2
                                                                                             F1P11360
                01614 XTA
                             BSS 1500
                                                                                             F1P11370
                                                                                             F1P11380
                                 704 FORTRAN MASTER RECORD CARD / 1 PRIME COMMON = F0210000. F1P11390
                             ORG O
                00000
                                                                                             F1P11410
                             PZE ORG1PC + 1TOCS
      0 00004 0 04550
                                                                                             F1P11420
                             PZE ENDIPC
00001 0 00000 0 07760
                                                                                             F1P11430
                                                                                             F1P11440
                                 COMMON TO SECTION ONE PRIME
                                                                                             F1P11450
                                                                                             F1P11460
                04550 ORG1PC ORG 2408
                                       LOCATION OF NUM OF WORDS IN TEIFNO F1P11470
BLOCK FOR ASSEMBLED TEIFNO F1P11480
                04550 OTAM1 BSS 1
                04551 OTA
                             BSS 1500
                               TABLE ASSEMBLY PROGRAM
                                                                                            F1P11490
                                                                                            F1P11500
07505 0 77200 0 00204 TAP00 REW 4
                                                                                            F1P11510
                             STQ E2A
07506 -0 60000 0 07754
                                                                                             F1P11520
                           SXD E3A+2
07507 -0 63400 2 07755
                                                                                             F1P11530
                             SXD E4A,4
07510 -0 63400 4 07756
                                                GET TABLE NUMBER
                                                                                             F1P11540
                             CLA 1.1
07511 0 50000 1 00001
                                                                                             F1P11550
                             STA TAPOO+6
07512 0 62100 0 07513
                        ALS 1
                                                                                             F1P11560
07513 0 73400 2 00000
                          PAX •2 .
                                                                                            F1P11570
07514 0 76700 0 00001
                                                FORM 3I
                                                                                            F1P11580
07515 0 40000 1 00001
                                                                                            F1P11590
                            ADD OAD
07516 0 40000 0 07630
                                                                                            F1P11600
                          STA TAPO6
07517 0 62100 0 07574
                                                                                            F1P11610
                          STA TAP20
ADD L(2)
07520 0 62100 0 07541
                                                FORM INTET + 31 +2
                                                                                            F1P11620
07521 0 40000 0 07732
                                                                                            F1P11630
                             STA TAPO1
07522 0 62100 0 07531
                                                                                            F1P11640
                          STA TAPO5
07523 0 62100 0 07570
                                                                                            F1P11650
                             CLA MWN+10+2
07524 0 50000 2 07655
                                                 TABLE MAXIMUM
                                                                                            F1P11660
                             PAX •2
07525 0 73400 2 00000
                                                                                            F1P11670
                             SXD TAPO81,2
07526 -0 63400 2 07601
                                                                                            F1P11680
                             SXD OVTEST . 2
07527 -0 63400 2 07617
                                                                                            F1P11690
07530 0 53400 2 07730
                             LXA L(0) .2
                                                NO OF BLOCKS OF THIS TABLE ON TAPE 4
                                                                                            F1P11700
07531 0 53400 4 00000 TAP01 LXA **,4
                                                                                            F1P11710
                            CLA 2:1
07532 0 50000 1 00002
                                                                                            F1P11720
                             STA TAPO3
07533 0 62100 0 07561
                                                                                            F1P11730
07534 0 62100 0 07577
                             STA TAPOS
                                                                                            F1P11740
                             SUB L(1)
07535 0 40200 0 07731
                                                                                            F1P11750
                             STA TAP11
07536 0 62100 0 07603
                                                                                            F1P11760
                             STA TAP12
07537 0 62100 0 07612
                        TXL TAPO5,4,0 TEST FOR NO TAPE RECORDS
                                                                                            F1P11770
07540 -3 00000 4 07570
                                                                                            F1P11780
07541 0 50000 0 00000 TAP20 CLA **
                                                                                            F1P11790
                             STD TAP14+1
07542 0 62200 0 07622
                                                                                            F1P11800
                                                 TURN OFF INDICATOR
                             RTT
07543 -0 76000 0 00012
                                                                                            F1P11810
                             TXH 0.0.0
07544 3 00000 0 00000
                                                                                            F1P11820
07545 0 76600 0 00333 TAP02 1QD
                                                 TEST INDICATOR
                                                                                            F1P11830
                             RTT
07546 -0 76000 0 00012
                                                                                            F1P11840
                                                 ON
                             TXI TAP14,4,1
07547 1 00001 4 07621
                                                  OFF
                                                                                            F1P11850
                             CLA L(4)
07550 0 50000 0 07734
                                                                                            F1P11860
07551 0 60100 0 07757
                             STO E5A
                                                                                            F1P11870
07552 0 76200 0 00224 READ4 RTB 4
```

				cov	F14 :	COPY IDENTIFICATION FIF	11880
	70000 0 02000 0				E1A TAP025		11890
	07400 4				DIAG 4	EOF MACHINE ERROR F1F	11900
07556 0 5	50000 0	07753	TAP025				11910
	40200 1		0-2		1.1	TEST FOR RECORD OF TABLE BEING ASSEMBLED FIR	11920
07560 -0					READ4	FIP	11930
	70000 2		TAP03		**,2		11940
	77777 2			TXI	OVTEST +2+-1	· -	11950
	07400 4	•		TSX	DIAG,4	MAI INCHITION FULLALLY	11960
	00001 4	07545		XIT	TAP02,4,1	· · · · · · · · · · · · · · · · · · ·	11970
07565 0	76600 0	00333	TAPQ4	IOD			11980
07566 -0				RTT		FIP	11990
07567 0 0	02000 0	07621		TRA	TAP14	, -	12000
07570 0 5	50000 0	00000	TAP05	CLA		F1P	12010
07571 0 7	77100 0	00022		ARS		117	12020
07572 0 1	10000 0	07603		TZE	TAP11	1 4	12030
07573 0	73400 4	00000		PAX			12040
07574 0 4	40000 0	00000	TAP06	ADD			12050
	62100 0				TAP07		12060
	50000 4				**,4		12070 12080
	60100 2		TAP08		**,2	· · · · · · · · · · · · · · · · · · ·	12000
07600 1 7	77777 2	07601			TAP081,2,-1	· · · · · · · · · · · · · · · · · · ·	12100
07601 -3 (00000 2	07620	TAP081	TXL	OVFLOW,2,**		12110
	00001 4				TAP07+4+1	· · · · · · · · · · · · · · · · · · ·	12120
	60000 0		TAPII	STZ			12130
07604 -0				PXD		-	12140
	10000 0				TAP13	· -,	12150
• • • • • • • • • • • • • • • • • • • •	77100 0			ARS	10	· · · · · · · · · · · · · · · · · · ·	12160
• • • • • • • • • • • • • • • • • • • •	76000 0				L(1)		12170
	40000 0			PAX		· · · · · · · · · · · · · · · · · · ·	12180
07611 0 7 07612 -0 6	73400 2	00000	TAD12		**,2		12190
	56000 0			LDQ		· -	12200
07613 0 5 07614 -0 5			IAPIS		E3A,2	F1P	12210
07615 -0					E4A,4	F1P	12220
	02000 1			TRA		RETURN TO CALLER F1P	12230
07617 3 (00000 2	07561	OVTEST		TAP03+2+**	F1P	12240
07620 0	07400 4	00004	OVELOW	TSX	D1AG • 4	BUFFER AREA EXCEEDED F1P	12250
07621 0	76400 0	00204	TAP14	BST		F1P	12260
	00000 2				TAP14+2,2,**	· · · · · · · · · · · · · · · · · · ·	12270
	50000 0				E5A		12280
	40200 0				L(1)	· · · · · · · · · · · · · · · · · · ·	12290
	60100 0			STO			12300
07626 -0				-	READ4		12310
	07400 4			TSX	DIAG +4	THREE FAILURES IN READING A RECORD FROM T 4F1P	
U.U	0 00000		OAD		INTET	· -	12330
3.5		07631		BSS	3	• •	12340
					MAXIMUM NUMBER OF	HONDO MEZONEO IN TANTO DE TRIBETO	12350
07634 0 0	0 00000	77634			-100		12360
	0 00000	77634			-100		12370
07636 0 0	0 00000	77324			-300	1010107	12380
07637 0 6	0 00000	76422			- 750	HONEACY TRIBLE TO	12390
	0 00000				-900		12400
07641 0 0	0 00000	76650			-600	COMMON: TABLE 12 F1P	12410

	_					-000	SUBDEF •	TABLE	11	F1P12420
07642	0	00000	76174			-900	SUBDET F	TABLE	10	F1P12430
07643	0	00000	75152	MWN		-1450	CLOCUE.	TABLE	10	F1D12440
07644	0	00000	75044	•		-1500	CLUSUB	TABLE	9	E1012450
07645	0	00000	75044	+		-1500	EGOIT	TABLE	8	F1P12450
07646	0	00000	76422	!		-750	FREI	TABLE	!	F1F1240U
07647	0	00000	76030)		-1000	FORVAL 9	TABLE	6	F1P12470
07650	0	00000	75044	+		-1500	FORVAR •	TABLE	5	F1P12480
07651	0	00000	75044			-1500	FORTAG •	TABLE	4	F1P12490
07652	0	00000	77406	•		-250	TRAD,	TABLE	3	F1P12500
07653	0	00000	76650)		-600	TIFGO	TABLE	2	F1P12510
07654	0	00000 0 00000 0 00000 0 00000 0 00000 0 00000 0 00000 0 00000 0	76422	·		- 750	TDO.	TABLE	1	F1P12520
07655	ō	00000	76422			-750	TEIFNO:	TABLE	0	F1P12530
•	•									F1P12540
						PROGRAM FOR	WRITING AN AS	SEMBLED 1	11 10 9 8 7 6 5 4 3 2 1 0 TABLE ON TAPE ROGRAM WAT TESTS TO WRITE ON TAPE 2 LOCATION OF NUMBER OF WORL	F1P12550
07656	-0	63400 2	07726	WATOO	SXD	E1W+2		START PR	ROGRAM WAT	F1P12560
07657	ŏ	50000 0	07734		CLA	L(4)	PREPARE	TO COUNT	· ·	F1P12570
07660	ŏ	60100	07727	•	STO	E2W		TWO TAPE	TESTS	F1P12580
07660	ŏ	76600 0	00222	WATOS	WRS	146		PREPARE	TO WRITE ON TAPE 2	F1P12590
07662	ŏ	50000 1	00000		CLA	2.1		COMPUTE	LOCATION OF NUMBER OF WORL	SF1P12600
07662	×	40300 0	07721	•	SHR	1 (1)		IN TABLE	AND INITIALIZE ADDRESSES	F1P12610
07663	ŏ	40200 0	07444	•	STA	WATO2		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		F1P12620
0 / 664	ŭ	62100 0	07000	1	STA	WATOA				F1P12630
07665	Ü	62100 0	0/0/4		SIA	WAIUT		ADDDESS	TC NTA-1	F1P12640
07666	0	50000 0	00000	WAIU3	CLA	10		MUMPED C	NE WORDS IN TARIE DIT IN	F1P12650
07667	0	77100 0	00022		AKS	18		THREY P	F HORDS IN TABLE FOI IN	F1012660
07670	0	73400 2	00000	•	PAX	0,2		INDEX B	DDEEE	F1P12470
07671	0	40000 1	00002		ADD	2+1		KESE! AL	DUKESS	F1P12670
07672	0	62100 0	07677	,	STA	WA 105				L1L15000
07673	0	70000 1	00001		CPY	1,1		IDENTIFY	TABLE ON TAPE	F1P12690
07674	0	70000 0	00000	WATO4	CPY	**		NUM OF W	TORDS IN TABLE PUT ON TAPE	F1P12700
07675	0	40200 1	00002		SUB	2,1				F1P12710
07676	0	10000 0	07724	•	TZE	WATO6		NO ENTRI	ES IN TABLE	F1P12720
07677	0	70000 2	00000	WATQ5	CPY	0,2		ADDR 15	NTA + NUM WORDS IN NTA	F1P12730
07700	2	00001 2	07677	•	TIX	WAT05,2,1		COPY LOO	OP .	F1P12740
07701	0	76400 0	00222	!	BST	146			•	F1P12750
07702	-0	76000 0	00012		RTT					F1P12760
07703	0	76100 0	00000		NOP				•	F1P12770
07704	Ō	76200 0	00222		RDS	146			·	F1P12780
07705	ŏ	70000 0	07754	WATO7	CPY	E2A			TABLE ON TAPE ROGRAM WAT TO THE TESTS TO WRITE ON TAPE 2 LOCATION OF NUMBER OF WORD E AND INITIALIZE ADDRESSES IS NTA-1 OF WORDS IN TABLE PUT IN DORESS TABLE ON TAPE FORDS IN TABLE PUT ON TAPE TO TABLE ON TAPE TO TABLE TO TABL	F1P12790
07706	0	02000 0	07705		TRA	WATO7				F1P12800
07707	ō	76100 0	00000	•	NOP			EOR		F1P12810
07710	ō	76600 0	00333		WRS	219		EOF		F1P12820
07711	-0	76000 0	00012		RTT					F1P12830
07712	Õ	02000 0	07714		TRA	WAT10		TAPE CHE	CK ON	F1P12840
07712	ñ	02000 0	07724		TRA	WATO6		TAPE CHE	CK OFF	F1P12850
07714	ŏ	50000 0	07727	WATIO	CLA	E2W				F1P12860
07715	~	40200 0	07721		SUR	L(1)				F1P12870
07717	0	40100 0	07727		STO	F2W			•	F1P12880
01110	0	12000	07721		TPI	WATO8				F1P12890
07717	U	12000 0	0/121		TCV	DIAG.4		STOP FOR	THIRD TAPE CHECK	F1P12900
07720	0	76400 0	00004	WATOO	DCT	146		310. 101	CK ON CK OFF THIRD TAPE CHECK	F1P12910
.07721	0	76400 0	00222	WAIUO	D31	MATOO				F1P12920
07722	0	02000 0	07661		IKA	WATUY			•	F1P12930
07723	0	70000 0	07730		CPY	L(U)		DECTORS	INDEX B	F1P12940
07724	-0	53400 2	07726	WA 106	LXD	ETM45		RESIURE	O MAIN DOCCOAM	F1P12950
07725	0	02000 1	00003		IKA	591		KETUKN 1	INDEX B O MAIN PROGRAM	. 1, 12,700

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F1P12960
                                                                                                   F1P12970
       0 00000 0 00000 E1W
07726
                                                                                                   F1P12980
07727 0 00000 0 00000 E2W
                                                                                                   F1P12990
       0 00000 0 00000 L(0)
07730
                                                                                                   F1P13000
07731 0 00000 0 00001 L(1)
                                                                                                   F1P13010
07732 0 00000 0 00002 L(2)
                                                                                                   F1P13020
07733 0 00000 0 00003 L(3)
                                                                                                   F1P13030
07734 0 00000 0 00004 L(4)
                                                                                                   F1P13040
       0 00000 0 00005 L(5)
07735
                                                                                                  F1P13050
07736 0 00000 0 00010 L(8)
                                                                                                   F1P13060
                                   50
07737 0 00000 0 00062 L(50)
                                                                                                   F1P13070
                                   0.0.1
07740 0 00001 0 00000 DECR1
                                                                                                   F1P13080
                                   0,0,2
07741 0 00002 0 00000 DECR2
                                                                                                   F1P13090
                                                              AMW0503
                               OCT 77777
07742 +000000077777
                        MSK
                                                                                                   F1P13100
                               OCT 37777777777
                                                              35 ONES. AMW 1318
                        FRCON
07743 +37777777777
                                                              LOCATION OF FIRST WORD ON DRUM
                                                                                                  F1P13110
07744. 0 00000 0 00312 DRL02
                                   202
                                                                                                  F1P13120
                                   2
07745 0 00000 0 00002 TNT2
                                                                                                   F1P13130
                                                              NON ERASABLE 0416 TO 0908
07746 0 00000 0 00000 E3
                                                                                                   F1P13140
07747 0 00000 0 00000 E4
                                                                                                  F1P13150
07750 0 00000 0 04551 L(OTA)
                                                                                                   F1P13160
07751 0 07400 4 00004 TEIFER TSX DIAG:4
                                                                                                   F1P13170
07752 0 10000 0 07723 TP3TRA TZE WAT06-1
                                                                                                   F1P13180
                 07753 E1A
                               BSS 1
                                                                                                   F1P13190
                 07754 EZA
                               BSS 1
                                                                                                   F1P13200
                 07755 E3A
                               BSS 1
                                                                                                  F1P13210
                               BSS 1
                 07756 E4A
                                                                                                  F1P13220
                               BSS 1
                 07757 E5A
                                                                                                  F1P13230
                 07747 E1
                               SYN E4
                                                                                                  F1P13240
                               SYN E3
                 07746 E2
                                                                                                  F1P13250
                               SYN TAPOO
                 07505 TAPOO
                                                                                                  F1P13260
                               SYN WATOO
                 07656 WATOO
                                                                                                  F1P13270
                 07750 L(OTA)
                              SYN LIOTAL
                                                                                                  F1P13280
                 00004 DIAG
                               SYN 4
                                                                                                   F1P13290
                 03163 COMP
                               SYN 1TA
                                                                                                  F1P13300
                               SYN 1TA
                 03163 2TA
                                                                                                  F1P13310
                 03163 3TA
                               SYN 1TA
                                                                                                  F1P13320
                               SYN LIOTAL
                 07750 TOTO
                                                                                                  F1P13330
                 04550 EQM1
                               SYN OTA-1
                                                                                                  F1P13340
                 04551 EQ
                               SYN OTA
                                                                                                  F1P13350
                 01614 4TA
                               SYN XTA
                                                                                                  F1P13360
                               SYN XTA
                 01614 5TA
                                                                                                  F1P13370
                 01614 6TA
                               SYN XTA
                                                                                                  F1P13380
                               SYN XTA
                 01614 7TA
                                                                                                  F1P13390
                 01614 9TA
                               SYN XTA
                                                                                                  F1P13400
                 01613 MEEQM1 SYN XTA-1
                                                                                                  F1P13410
                               SYN XTA
                 01614 MEEQ
                                                                                                  F1P13420
                               SYN XTA+750
                 03172 FRTS
                                                                                                  F1P13430
                 03564 FRCHS
                               SYN XTA+1000
                                                                                                  F1P13440
                               SYN E3
                 07746 E12
                                                                                                  F1P13450
                 07747 E1RF
                               SYN E4
                                                                                                  F1P13460
                               SYN EICLEQ
                 01577 SMBL
                                                                                                  F1P13470
                               SYN E2CLEQ
                 01600 SBSCR
                                                                                                  F1P13480
                 03564 16TA
                               SYN 6TA+1000
                                                                                                  F1P13490
                 00004 1TOCS
                               SYN 4
```

														F1P13500
			THE	FOLLOWING	S SYN	CARDS	ARE	FOR	PARAMETERS	IN	THE	CARRY	OVER	F1P13510
			FROM	SECTION	ONE '	TO SEC1	ION	ONE	PRIME.					F1P13520
00030	EIFNO	SYN	24											F1P13530
00031	ENDI1	SYN	25											F1P13540
00034	ENDI4	SYN	28											F1P13550
00322	INTET	SYN	210											F1P13560
00417	FXCNIX	SYN	271											F1P13570
00424	FLCNIX	SYN	276											F1P13580
00453	ORGDM1	SYN	299											F1P13590
00455	DIM1IX	SYN	301											F1P13600
00460	ORGDM2	SYN	304											F1P13610
00462	DIM2IX	SYN	306											F1P13620
00465	ORGDM3	SYN	309											F1P13630
00467	DIM3IX	SYN	311											F1P13640
00470	BK	SYN	312											F1P13650
00471	FORSUB	SYN	313											F1P13660
00637	BBOX	SYN	415											F1P13670
00640	CIB	SYN	416											F1P13680
07760	END1PC	855	O ·											F1P13690
00000		END												F1P13700
00001	0								•					

```
ORG 25
                              ORG 25
                 00031
                 77777 ERLIST SYN 32767
                 77633
                        TABLE SYN ERLIST-100
                        TRADT SYN ERLIST-1250
                 75434
                        BETA
                              SYN ERLIST-1251
                 75433 TIFGOT SYN ERLIST-1252
                 75433 ALPHA
                              SYN ERLIST-1252
                 74303 NONEXT SYN ERLIST-1852
                              REW 2
      0 77200 0 00202
                              REW 3
00032 0 77200 0 00203
                              LXA IR2,4
      0 53400 4 01151
00033
       0 76200 0 00202 RDFILE RTD 2
                                                     WILL READ ANY KIND OF END FILE MARK
00034
                              CPY 0
00035
      0 70000 0 00000
                              TRA RDFILE
      0 02000 0 00034
                                                      SPACE OVER 2 FILES AND OVER 1ST RECORD OF
                              TIX RDFILE,4,1
00037
      2 00001 4 00034
                              RTB 2
                                                      3RD FILE
00040
      0 76200 0 00222
                              NOP
00041 0 76100 0 00000
00042 0 53400 1 01152
                              LXA IR4+1
                              CPY TABLE+1+1
00043
      0 70000 1 77634
                              TXI CP+1+1
00044 1 00001 1 00043
                                                      START AGAIN, CANNOT GET END FILE
                              TRA831
00045 0 02000 0 00031
                                                      DROP COUNT OF 2ND FILE
                              TIX FORSUB,1,1
00046 2 00001 1 00124
                                                      SPACE OVER END FILE AFTER FORSUB
                              RTB 2
      0 76200 0 00222
00047
                              RTB 2
                                                      SPACE OVER FLOCON
      0 76200 0 00222
00050
                                                      SPACE OVER FORMAT
                              RTB 2
00051 0 76200 0 00222
                              LXA IR4,1
00052 0 53400 1 01152 RDREC
      0 76200 0 00222
                              RTB 2
00053
                              CPY IDENT
00054
      0 70000 0 01174
                              CPY WDCONT
00055 0 70000 0 01175
                                                      ALTERNATE FOR READING TRAD CPY TRAD 2
                              CPY TABLE 1
00056 0 70000 1 77633
                        COPY
                                                                                 TIX COPYAA:1:1
                        CPTXI TXI COPY+1+1
      1 00001 1 00056
                       COPYAA TXI COPY #4 # - 1
00060 1 77777 4 00056
                              PXD 0.1
00061 -0 75400 1 00000
                                                      NOP GOES HERE AFTER SIZ TABLES ARE READ
                              TRA PTCH
00062 0 02000 0 01254
                        RDA
00063 0 40200 0 01175 SUBWDS SUB WDCONT
                                                TZE IDNTFY REPLACES THIS AFTER SIZ TABLES READ
                              TZE SIZ
00064 0 10000 0 00135 RDAAB
00065 -0 53400 4 01201
                              LXD BST+4
                              TXL TRY,4,14
00066 -3 00016 4 00072
00067 0 56000 0 01174
                              LDQ IDENT
                        BADWC TSX ERROR • 4
00070 0 07400 4 01033
00071 0 02000 0 00777
                              TRA DIAGND
                              TXI RDSXD+4+1
00072 1 00001 4 00073
                        TRY
00073 -0 63400 4 01201
                        RDSXD SXD BST+4
                              BST 2
00074 0 76400 0 00202
00075
      0 02000 0 00052
                              TRA RDREC
                                                      FORMAT SIZE AND ALL TAPE TABLES HAVE
                       IDNTFY STZ BST
      0 60000 0 01201
20076
                                                      IDENTIFICATION WORD AS FIRST WORD OF
                              LXA TAPTAB,2
00077 0 53400 2 01253
```

TAPE RECORD, NOT INCLUDED IN WORD

BACK SPACE RECORD AND TRY AGAIN 15 TIMES

COUNT

CLA IDENT

TRA NEXT

TRA HAVE

NEXT

CAS TAPTAB,2

TIX CAS,2,2

LXD BSTA,4

0 50000 0 01174

00102 0 02000 0 00104

00103 0 02000 0 00116

00104 2 00002 2 00101

00105 -0 53400 4 01202

0 34000 2 01253

00100

```
TXL TRYA,4,14
                                                     IF NECESSARY
00106 -3 00016 4 00112
00107 0 56000 0 01174
                             LDQ IDENT
00110 0 07400 4 01033 NOIDEN TSX ERROR,4
00111 0 02000 0 00777
                              TRA DIAGND
                       TRYA TXI IDNSXD,4,1
00112 1 00001 4 00113
00113 -0 63400 4 01202 IDNSXD SXD BSTA,4
                              BST 2
00114 0 76400 0 00202
                              TRA RDREC
      0 02000 0 00052
00115
                      HAVE STZ BSTA
00116
      0 60000 0 01202
                              CLA TAPTAB+1,2
      0 50000 2 01254
00117
                              STA TRA
00120
      0 62100 0 00121
                              TRA 0
      0 02000 0 00000 TRA
00121
                                                   IF NO TIFGO ENTRY. IGNORE TRAD ENTRY
      0 76200 0 00222 NOTIFG RTB 2
                             TRA RDREC
00123 0 02000 0 00052
      2 00002 1 00126 FORSUB TIX SAVEA:1:2
00124
      0 53400 1 01152
                             LXA IR4+1
00125
                       SAVEA SXD TXLA:1
00126 -0 63400 1 00133
                              LXA IR4,1
00127 0 53400 1 01152
00130 0 56000 1 77633
                       LDQA
                             LDQ TABLE + 1
                       TSXA TSX CHECKA:4
00131 0 07400 4 01066
                              TXI TXLA,1,2
00132 1 00002 1 00133
                       TXLA TXL LDQA , 1 , 0
00133 -3 00000 1 00130
                              TRA OVER
00134 0 02000 0 00047
                                                     IF NO ENTRIES, GET NEXT TAPE RECORDS
                             TXL SETRD.1.0
00135 -3 00000 1 00146
                      SIZ
                             TIX SAVEB:1:2
                                                    REDUCE WORD COUNT FOR END OF ENTRIES TEST
00136 2 00002 1 00140
                                                    IF TOO SMALL, SET TO ZERO
                              LXA IR4+1
00137 0 53400 1 01152
                             SXD TXLB,1
00140 -0 63400 1 00145 SAVEB
                                                     START AT FIRST ENTRY. THAT IS IR IS ZERO
                              LXA IR4+1
00141 0 53400 1 01152
                       LDQB
                             LDQ TABLE +1
00142 0 56000 1 77633
                       TSXB TSX CHECKA 4
00143
      0 07400 4 01066
                                                     GET NEXT 2 WORD ENTRY
                              TXI TXLB,1,2
00144 1 00002 1 00145
                        TXLB TXL LDQB . 1 . 0
00145 -3 00000 1 00142
                                                     SPACE OVER GAP AT END OF 4TH FILE
00146 0 76200 0 00222 SETRD RTB 2
                                                     SPACE OVER 5 WORD END RECORD
                              RTB 2
      0 76200 0 00222
00147
                             CLA AFTRSZ
      0 50000 0 01232
00150
                             STA RDAAB
      0 62100 0 00064
                             CLA NOP
      0 50000 0 01205
00152
                                                     RESET TEST AT END OF READ LOOP
                             STO RDA
      0 60100 0 00062
00153
                             TRA RDREC
00154 0 02000 0 00052
00155 -3 00000 1 00052 SUBARG TXL RDREC+1+0
                                                     INITIALIZATION OF END ENTRIES TEST
                             TIX SAVEC +1+1
00156 2 00001 1 00160
                             LXA IR4.1
00157 0 53400 1 01152
00160 -0 63400 1 00165
                       SAVEC SXD TXLC:1
                             LXA IR4.1
00161 0 53400 1 01152
                       LDQC LDQ TABLE,1
      0 56000 1 77633
00162
                       TSXC
                             TSX CHECKA,4
      0 07400 4 01066
00163
                              TXI TXLC +1+1
                                                    1 WORD ENTRIES
00164 1 00001 1 00165
00165 -3 00000 1 00162
                       TXLC TXL LDQC +1 +0
                             TRA RDREC
00166 0 02000 0 00052
                                                   INITIALIZE END OF ENTRIES TEST
00167 -3 00000 1 00200 UPPER TXL UPPRTB+1+0
                             TIX SAVED, 1,1
00170 2 00001 1 00172
                             LXA IR4+1
00171 0 53400 1 01152
00172 -0 63400 1 00177 SAVED SXD TXLD:1
00173 0 53400 1 01152
                             LXA IR4,1
```

```
LDQ TABLE,1
                        LDQD
      0 56000 1 77633
                              TSX CHECKA 4
      0 07400 4 01066
00175
                                                     1 WORD ENTRIES
                              TXI TXLD +1 +1
     1 00001 1 00177
00176
                       TXLD TXL LDQD+1+0
00177 -3 00000 1 00174
                                                    NO SCAN OF HOLARG RECORD
00200 0 76200 0 00222 UPPRTB RTB 2
                              TRA RDREC
00201 0 02000 0 00052
                                                     INITIALIZE END OF ENTRIES TEST
00202 -3 00000 1 00052 TEIFNO TXL RDREC+1+0
                              TIX SAVEE,1,1
     2 00001 1 00205
00204 0 53400 1 01152
                              LXA IR4+1
00205 -0 63400 1 00214 SAVEE SXD TXLE+1
                              LXA IR4+1
00206 0 53400 1 01152
                                                     MINUS ENTRY MEANS BETA IS
                        CLAE CLA TABLE,1
00207 9 50000 1 77633
                                                     DUPLICATED IN SOURCE PROGRAM
                              TPL TSTE
00210 0 12000 0 00213
                              LDQ TABLE,1
00211 0 56000 1 77633
                        TSXE
                             TSX ERROR • 4
00212 0 07400 4 01033
                        TSTE
                              TXI TXLE +1+1
00213 1 00001 1 00214
                             TXL CLAE + 1 + 0
00214 -3 00000 1 00207
                              CLA ADTIFG
00215 0 50000 0 01164
                              STA COPY
00216 0 62100 0 00056
                              TRA RDREC
00217 0 02000 0 00052
                                                    IF NO ENTRIES, IGNORE TRAD IDENTIFICATION
00220 -3 00000 1 01260 TIFGO
                             TXL PATIF,1,0
                              TIX SAVEF 1 2
00221 2 00002 1 00223
                              LXA IR4,1
00222 0 53400 1 01152
00223 -0 63400 1 00310 SAVEF
                             SXD TXLF 1
                                                     SET READ LOOP TO READ TRAD
                              CLA ADTRAD
00224 0 50000 0 01165
                                                     UPWARDS IN MEMORY. BUT
                              STO COPY
      0 60100 0 00056
00225
                                                     KEEP TRACK OF WORD COUNT
                              CLA CPTRAD
00226 0 50000 0 01166
                                                     AS USUAL
                              STA CPTXI
00227 0 62100 0 00057
                              LXA IR4,4
      0 53400 4 01152
00230
                              TRA RDREC
      0 02000 0 00052
00231
                                                     RESTORE COPY LOOP
      0 50000 0 01163 TRAD
                              CLA ADTABL
                              STO COPY
      0 60100 0 00056
00233
                              CLA COPYAA
      0 50000 0 00060
00234
                              STA CPTXI
      0 62100 0 00057
00235
                              TXI SXDG,4,-1
00236 1 77777 4 00237
                                                     SAVE NUMBER OF ENTRIES IN BETA TABLE
                        SXDG SXD BETANB,4
00237 -0 63400 4 00572
                                                    ADD ONE TO LAST TEIFNO
                              CLA 24
00240 0 50000 0 00030
                                                    GET LAST TEIFNO
                              NOP
      0 76100 0 00000
00241
                              ARS 18
      0 77100 0 00022
00242
                              STZ BETA
       0 60000 0 75434
00243
                              STA BETA
      0 62100 0 75434
00244
                              RTB 3
00245 0 76200 0 00223
                                                     READ IN TABLE OF NON EXECUTABLE
                              LXA 1R4,2
      0 53400 2 01152
00246
                                                     STATEMENTS AND SAVE
                        CPNON CPY 0
00247 0 70000 0 00000
                                                        DECREMENT OF TABLE IN
                              LXD 0+4
00250 -0 53400 4 00000
                                                     ADDRESS OF MEMORY
                              TRA PXDH
00251 0 02000 0 00253
                              TRA SAVXNB
00252 0 02000 0 00257
                        PXDH PXD 094
00253 -0 75400 4 00000
                              ARS 18
00254 0 77100 0 00022
                              STO NONEXT + 2
00255 0 60100 2 74303
                              TXI CPNON,2,1
      1 00001 2 00247
00256
                                                     SET END OF ENTRIES TEST
      2 00001 2 00261 SAVXNB TIX SAVEH+2+1
                              LXA IR4,2
00260 0 53400 2 01152
                                                    SET END OF ENTRIES TEST
00261 -0 63400 2 01055 SAVEH SXD TXLH+2
```

```
00262 0 53400 1 01152
                              LXA IR4+1
                                                     SAVE ALPHA IN CASE OF ERROR, AND
                            CLA TIFGOT 1
00263 0 50000 1 75433
                                                     ALSO TO PUT IN ALPHA TABLE AT
                              ARS 18
00264 0 77100 0 00022
                                                     END OF PROCESSING EACH KIND OF TIFGO
                              STA ALFA
00265 0 62100 0 01170
                                                     DETERMINE KIND OF ENTRY
                              CLA TIFGOT 1
00266 0 50000 1 75433
                              TMI TIFMI
00267 -0 12000 0 00312
00270 0 73400 2 00000
                              PAX 0.2
                              TXL TIFZRO,2,0
00271 -3 00000 2 00345
                              TXL TIFG01,2,1
00272 -3 00001 2 00363
                              TXL TIFG02,2,2
00273 -3 00002 2 00410
                              TXL TIFG03,2,3
00274 -3 00003 2 00435
                              TXL TIFGO4,2,4
00275 -3 00004 2 00461
                              TXL TIFG05,2,5
00276 -3 00005 2 00505
                              TXL TIFG06,2,6
00277 -3 00006 2 00531
                                                     NOT IDENTIFYABLE, SAVE IN ERROR
                              LDQ TIFGOT 1
00300 0 56000 1 75433
                                                     TABLE, BUT PUT ALPHA IN TABLE ANYWAY
00301 0 07400 4 01033 WHATIF TSX ERROR,4
                                                     STORE ALPHA IN TABLE
00302 -0 53400 4 00635 NXTIFG LXD ALFANB,4
                              CLA ALFA
00303 0 50000 0 01170
                              STO ALPHA,4
00304 0 60100 4 75433
                              TXI FSAVE,4,1
00305 1 00001 4 00306
00306 -0 63400 4 00635 FSAVE SXD ALFANB 4
                                                     TYPE 6 TIFGO ENTRIES DO NOT GO IN
00307 1 00002 1 00310 RETIF6 TXI TXLF+1+2
00310 -3 00000 1 00263 TXLF TXL CLAF +1 +0
                                                     ALPHA TABLE
                                                     WHEN TIFGO FINISHED, READ IN STOPS
                              TRA STOPS
00311 0 02000 0 00536
00312 -0 32000 0 01157 TIFMI ANA ADDMSK
                                                     IF BETA IS ZERO, THERE WAS NO ENTRY
                              TNZ SAVEB1
00313 -0 10000 0 00316
                                                     CORRESPONDING TO IT IN COL 1 TO 5 OF
00314 0 07400 4 01022 MINB1 TSX NOBETA:4
                                                     SOURCE PROGRAM, SKIP REST OF PROCESSING
                              TRA NOWB2
00315 0 02000 0 00321
                                                    IF BETA IS NOT EXECUTABLE, DO NOT PUT IN
00316 0 07400 4 01047 SAVEB1 TSX ISNONX,4
                                                     BETA TABLE
                             TMI NOWB2
00317 -0 12000 0 00321
                              TSX MORBTS:4
00320 0 07400 4 01131
00321 0 50000 1 75432 NOWB2 CLA TIFGOT-1:1
00322 0 77100 0 00022
                              ARS 18
                              ANA ADDMSK
00323 -0 32000 0 01157
                              TNZ SAVEB2
00324 -0 10000 0 00327
00325 0 07400 4 01022 MINB2 TSX NOBETA+4
00326 0 02000 0 00332
                              TRA NOWB3
00327 0 07400 4 01047 SAVEB2 TSX ISNONX,4
                              TMI NOWB3
00330 -0 12000 0 00332
                              TSX MORBTS • 4
00331 0 07400 4 01131
00332 0 50000 1 75432 NOWB3 CLA TIFGOT-1+1
                              ANA ADDMSK
00333 -0 32000 0 01157
                              TNZ SAVEB3
00334 -0 10000 0 00337
00335 0 07400 4 01022 MINB3 TSX NOBETA+4
                              TRA ALFAD1
00336 0 02000 0 00342
00337 0 07400 4 01047 SAVEB3 TSX ISNONX 4
                              TMI ALFADI
00340 -0 12000 0 00342
                              TSX MORBTS:4
00341 0 07400 4 01131
00342 0 50000 0 01156 ALFAD1 CLA DECTRE
                              STD ALFA
00343 0 62200 0 01170
                              TRA NXTIFG
00344 0 02000 0 00302
00345 0 50000 1 75432 TIFZRO CLA TIFGOT-1.1
                             ANA ADDMSK
00346 -0 32000 0 01157
                             TNZ TIFOB
00347 -0 10000 0 00352
```

```
0 07400 4 01022 TSXTFO TSX NOBETA:4
                                                      KEEP TRACK OF NUMBER OF BETAS
      0 02000 0 00355
                              TRA NEXTI
00352 0 07400 4 01047 TIFOB
                             TSX ISNONX+4
00353 -0 12000 0 00355
                              TMI NEXTI
                              TSX MORSTS.4
00354
      0 07400 4 01131
                                                     DO NOT PUT IN ALPHA TABLE IF
      0 50000 1 75432 NEXTI CLA TIFGOT-1,1
                                                     ENTRY BY IRV FOR SAP INSTRUCTIONS
                              PDX 0:4
00356 -0 73400 4 00000
                              TXH RETIF6,4,0
      3 00000 4 00307
00357
                              CLA DECONE
      0 50000 0 01154
00360
                              STD ALFA
      0 62200 0 01170
                              TRA NXTIFG
      0 02000 0 00302
00362
      0 60000 0 01172 TIFG01 STZ TRADNB
00363
                                                      PREPARE TO READ RELATED TRAD ENTRIES
                              CLA TIFGOT-1,1
                        CLAJ
      0 50000 1 75432
                              PDX 0.2
00365 -0 73400 2 00000
                              ALS 18
      0 76700 0 00022
00366
                              STD TXHJ
      0 62200 0 00404
00367
                             CLA TRADT+250+2
     0 50000 2 76027 MORTR
                              TNZ TRADX1
00371 -0 10000 0 00374
      0 07400 4 01022 BTIFG1 TSX NOBETA 4
00372
                              TRA ADDJ
00373
      0 02000 0 00400
                                                      IF TRAD IS NON EXECUTABLE, MAKE ENTRY
      0 07400 4 01047 TRADX1 TSX ISNONX.4
00374
                                                      FAIL ANY ALPHA PLUS 1 SEARCH LATER ON
                              TPL ADDJ
      0 12000 0 00400
00375
                                                      BY PUTING NUMBER IN DECFIELD
                              CLA DECONE
00376
      0 50000 0 01154
                                                      BUT KEEP TRACK OF NUMBER OF BRANCHES GIVEN
                              STD TRADT+250,2
      0 62200 2 76027
00377
      0 50000 0 01172 ADDJ
                              CLA TRADNB
                              ADD DECONE
      0 40000 0 01154
00401
                              STO TRADNB
60402
      0 60100 0 01172
      1 77777 2 00404
                              TXI TXHJ+2+-1
00463
                              TXH MORTR + 2 + 0
      3 00000 2 00370 TXHJ
                              CLA TRADNB
      0 50000 0 01172
00405
                              STD ALFA
      0 62200 0 01170
00406
                              TRA NXTIFG
      0 02000 0 00302
00407
      0 60000 0 01172 TIFGO2 STZ TRADNB
00410
                        CLAK CLA TIFGOT-1,1
      0 50000 1 75432
00411
                              PDX 0+2
00412 -0 73400 2 00000
                              ALS 18
      0 76700 0 00022
00413
                              STD TXHK
      0 62200 0 00431
00414
      0 50000 2 76027 MORTRD CLA TRADT+250+2
                              TNZ TRADX2
00416 -0 10000 0 00421
      0 07400 4 01022 BTIFG2 TSX NOBETA:4
00417
      0 02000 0 00425
                              TRA ADDK
00420
      0 07400 4 01047 TRADX2 TSX ISNONX 4
00421
                              TPL ADDK
      0 12000 0 00425
00422
                              CLA DECONE
      0 50000 0 01154
00423
                              STD TRADT+250,2
       0 62200 2 76027
00424
                        ADDK CLA TRADNB
00425
      0 50000 0 01172
                              ADD DECONE
      0 40000 0 01154
00426
                              STO TRADNB
      0 60100 0 01172
00427
                              TXI TXHK,2,-1
00430
      1 77777 2 00431
      3 00000 2 00415 TXHK
                              TXH MORTRD,2,0
00431
                              CLA TRADNB
      0 50000 0 01172
00432
                              STD ALFA
       0 62200 0 01170
00433
                              TRA NXTIFG.
      0 02000 0 00302
00434
      0 50000 1 75432 TIFG03 CLA TIFGOT-1.1
```

```
ARS 18
00436 0 77100 0 00022
                              ANA ADDMSK
00437 -0 32000 0 01157
00440 -0 10000 0 00443
                              TNZ TIF3B1
00441 0 07400 4 01022 BITIF3 TSX NOBETA:4
00442 0 02000 0 00446
                              TRA NEXTL
00443 0 07400 4 01047 TIF3B1 TSX ISNONX+4
00444 -0 12000 0 00446
                              TMI NEXTL
                              TSX MORBTS:4
00445 0 07400 4 01131
                             CLA TIFGOT-1:1
00446 0 50000 1 75432 NEXTL
                              ANA ADDMSK
00447 -0 32000 0 01157
00450 -0 10000 0 00453
                              TNZ TIF3B2
00451 0 07400 4 01022 B2TIF3 TSX NOBETA+4
                              TRA ADDL
00452 0 02000 0 00456
00453 0 07400 4 01047 TIF3B2 TSX ISNONX,4
                              TMI ADDL
00454 -0 12000 0 00456
                              TSX MORBTS 4
00455 0 07400 4 01131
                              CLA DECTWO
00456 0 50000 0 01155 ADDL
00457 0 62200 0 01170
                              STD ALFA
                              TRA NXTIFG
00460 0 02000 0 00302
00461 0 50000 1 75432 TIFGO4 CLA TIFGOT-1:1
00462 0 77100 0 00022
                              ARS 18
                              ANA ADDMSK
00463 -0 32000 0 01157
                              TNZ TIF4B1
00464 -0 10000 0 00467
00465 0 07400 4 01022 B1TIF4 TSX NOBETA:4
                              TRA NEXTM
00466 0 02000 0 00472
00467 0 07400 4 01047 TIF4B1 TSX ISNONX,4
                              TMI NEXTM
00470 -0 12000 0 00472
                              TSX MORBTS.4
00471 0 07400 4 01131
00472 0 50000 1 75432 NEXTM CLA TIFGOT-1,1
                              ANA ADDMSK
00473 -0 32000 0 01157
                              TNZ TIF4B2
00474 -0 10000 0 00477
00475 0 07400 4 01022 B2T1F4 TSX NOBETA+4
00476 0 02000 0 00502
                              TRA ADDM
00477 0 07400 4 01047 TIF4B2 TSX ISNONX,4
                              TMI ADDM
00500 -0 12000 0 00502
                              TSX MORBTS:4
00501 0 07400 4 01131
                        ADDM CLA DECTWO
00502 0 50000 0 01155
                              STD ALFA
00503 0 62200 0 01170
                              TRA NXTIFG
00504 0 02000 0 00302
00505 0 50000 1 75432 TIFG05 CLA TIFGOT-1+1
                              ARS 18
00506 0 77100 0 00022
00507 -0 32000 0 01157
                              ANA ADDMSK
                              TNZ TIF581
00510 -0 10000 0 00513
00511 0 07400 4 01022 BITIF5 TSX NOBETA 4
                              TRA NEXTN
00512 0 02000 0 00516
00513 0 07400 4 01047 TIF5B1 TSX ISNONX+4
                              TMI NEXTN
00514 -0 12000 0 00516
                              TSX MORBTS:4
00515 0 07400 4 01131
00516 0 50000 1 75432 NEXTN CLA TIFGOT-1,1
00517 -0 32000 0 01157
                              ANA ADDMSK
                              TNZ TIF5B2
00520 -0 10000 0 00523
00521 0 07400 4 01022 B2T1F5 TSX NOBETA,4
                              TRA ADDN
00522 0 02000 0 00526
00523 0 07400 4 01047 TIF5B2 TSX ISNONX,4
```

```
00524 -0 12000 0 00526
                               TMI ADDN
00525 0 07400 4 01131
                               TSX MORBTS,4
                        ADDN
                              CLA DECTWO
00526
      0 50000 0 01155
                               STD ALFA
       0 62200 0 01170
00527
                               TRA NXTIFG
00530
      0 02000 0 00302
00531 0 50000 1 75432 TIFG06 CLA TIFG0T-1:1
                               ANA ADDMSK
00532 -0 32000 0 01157
                               TNZ RETIF6
00533 -0 10000 0 00307
                              TSX NOBETA:4
      0 07400 4 01022 TIF6B
00534
                               TRA RETIF6
      0 02000 0 00307
00535
      0 76200 0 00223 STOPS
                              RTB 3
00536
                                                      LOAD NUMBER ALREADY IN ALPHA TABLE
                               LXD ALFANB +1
00537 -0 53400 1 00635
                                                      READ TABLE OF STOPS INTO REST OF
      0 70000 0 00000 CPSTOP CPY 0
00540
                                                      ALPHA TABLE, PUT DECREMENT OF
                               LXD 0.4
00541 -0 53400 4 00000
                                                      TAPE TABLE INTO ADDRESS OF MEMORY
                               TRA PDXP
      0 02000 0 00544
00542
                               TRA TIXP
00543
      0 02000 0 00550
                              PXD 0,4
00544 -0 75400 4 00000
                               ARS 18
00545
      0 77100 0 00022
                               STO ALPHA:1
      0 60100 1 75433
00546
                               TXI CPSTOP 1 1
00547
      1 00001 1 00540
                        TIXP
                              TIX NEXTP 1 1
      2 00001 1 00552
00550
00551 0 53400 1 01152
                               LXA IR4+1
                        NEXTP SXD ENDALF . 1
00552 -0 63400 1 00600
                               SXD ALFANB 1
00553 -0 63400 1 00635
                               SXD FRETST.1
00554 -0 63400 1 00754
                                                      RESET ISNONX ROUTINE SO IT IS
                               CLA CHNONX
00555
      0 50000 0 01167
                                                      MERELY INFORMATIVE AND DOES NOT
                               STA YESNOX
       0 62100 0 01053
00556
                                                      MAKE ENTRIES IN ERROR TABLE
                               LXA IR4.1
       0 53400 1 01152
00557
      0 50000 1 75433
                              CLA ALPHA,1
                       CLAQ
00560
      0 02000 0 01271 QADD
                               TRA PAQADD
00561
                               STZ ALFA
       0 60000 0 01170 ADDQ
00562
                               STA ALFA
       0 62100 0 01170
00563
                               LXA IR4,2
       0 53400 2 01152
       0 50000 2 75434 NXTBTA CLA BETA:2
00565
                               CAS ALFA
       0 34000 0 01170
00566
                               TRA NEXTO
       0 02000 0 00571
00567
                               TRA NXTALF
00570
      0 02000 0 00577
      1 77777 2 00572 NEXTQ TXI BETANB . 2 . - 1
00571
      3 00000 2 00565 BETANB TXH NXTBTA+2+0
00572
                               CLA ALFA
      0 50000 0 01170
                                                      IF ALPHA PLUS 1 IN NONX, THEN LOOK IN BETA
                               TSX ISNONX,4
      0 07400 4 01047
00574
                                                      TABLE FOR ALPHA +2 ETC
                               TMI ALANDI
00575 -0 12000 0 00602
                                                      NOT EITHER TABLE, PART OF PROG NOT ENTERED
      0 07400 4 01022 NOTRA TSX NOBETA:4
00576
90577 1 00001 1 00600 NXTALF TXI ENDALF 1 1
00600 -3 00000 1 00560 ENDALF TXL CLAG.1.0
                               TRA RDREC
      0 02000 0 00052
00601
      0 50000 0 01170 ALAND1 CLA ALFA
                               TRA QADD
      0 02000 0 00561
00603
                               TXL SPACES . 1 . 0
00604 -3 00000 1 00723 TDO
                                                      INITIALIZE END OF ENTRIES TEST
                               TIX SAVES,1,5
      2 00005 1 00607
00605
00606 0 53400 1 01152
                               LXA IR4+1
                             SXD TXLS+1
00607 -0 63400 1 00722 SAVES
                               LXA IR4+1
00610 0 53400 1 01152
                       CLADO CLA TABLE 1
00611 0 50000 1 77633
```

								•	
,		-0	32000	0	01160		ANA ALS		SAVE TAG FIELD FOR PROCESSING N1.N2.N3
	00613				00022			DOTAG	
	00614				01203		_	TABLE +1	SAVE ALPHA IN CASE OF ERROR
	00615				77633				SHAF MELLIN THE CHOP OF THEOR
	00616				00022		ARS		
					01170		_	ALFA	
	00620			_	77633			TABLE + 1	
					01157			ADDMSK	
	00622	-0	10000	O	00625	· · · · · ·		BINTIF	
						DONOBT	TSX	NOBETA+4	
	00624				00643		TRA	DOALF	
	00625						LXA	IR4,2	IS BETA IN DO TABLE A CONDITIONAL
	00626	0	60100	0	01204		STO	DOBETA	TRANSFER. THAT IS. IS IT IN ALPHA TABLE
	00627	0	50000	2	75433	SCLA		ALPHA . 2	
	00630				01157			ADDMSK	MASK OUT NUMBER OF BRANCHES
	00631	0	34000	0	01204		CAS	DOBETA	
	00632	0	02000	0	00634		TRA	TIXS	
	00633				00727			CONBET	THIS IS AN ERROR
	00634	1	00001	2	00635	TIXS	TXI	ALFANB,2,1	
	00635	-3	00000	2	00627	ALFANB	TXL	SCLA,2,0	
	00636				01204			DOBETA	
					01047		TSX	ISNONX +4	
	00640	ŏ	12000	0	00643			DOALF	IF BETA IN TO IS NON EXECUTABLE THIS
	00641	ŏ	07400	4	01022			NOBETA +4	•
					01141			ADOB • 4	
	00042	Õ	50000	Ð	01170	DOALF		ALFA	
					01157	JONE:	ANA	ADDMSK	CLEAR ANY HASH LEFT FROM ERROR RECODING
	•		40000	Λ	01152			ADDONE	
	00646	ň	07400	ĭ	01047			ISNONX • 4	IF ALPHA PLUS I IS NON EXECUTABLE
			13000	7	00652			DOSYMB	THIS IS ERROR
		•	~~~~	_				NOBETA+4	THE TO CHINON
		Ž	07400	7	01022	DONLAN	TEY	ADOB • 4	
	00651	Ž	54000	7	77622	DOCYME	100	TARI Fm1.1	DOES SYMBOL CONTAIN ANY ILLEGAL
	00652	0	20000	. 4	01052	DUSTINE	TCY	CHECKA • 4	DOES SYMBOL CONTAIN ANY ILLEGAL PUNCTUATION
								IJKSYM	PORCIONITOR
					00656			ADOB • 4	
	-	O	07400	7	01141	T 12 CV14	130	CHECKB - 4	DOES SYMBOL BEGIN WITH IJKLM OR N
	00656	Ü	07400	4	01113	IJKSIM	TPL	CHECKD 94	DOES STREET BESTA MITH TOKEN ON II
					00661				
	00660				01141			ADOB • 4	
					01203	NI		DOTAG	
	-				00001		PBT		NO
	00663				00674			N2+1	NO NES
	00664		56000					TABLE-2+1	YES
	00665						TSX	CHECKA +4	
	00666				00670			I JKN1	
	00667	0	07400	4	01141			ADOB • 4	
	00670	0	07400	4	01113	IJKN1		CHECKB +4	
	00671				00673		TPL	N2	
	00672	0	07400	4	01141		TSX	ADOB #4	
		-0	50000	0	01203	N2	CAL	DOTAG	
	00674				00001		ALS	1.	
					00001		PBT		
	00676				00706		TRA	N3	•••
	00677				77630			TABLE-3+1	

```
00700 0 07400 4 01066 PUNN2 TSX CHECKA:4
                              TPL IJKN2
      0 12000 0 00703
00701
                              TSX ADOB +4
00702
      0 07400 4 01141
                              TSX CHECKB +4
      0 07400 4 01113 IJKN2
00703
                              TPL N3
     0 12000 0 00706
00704
                              TSX ADOB +4
00705 0 07400 4 01141
00706 -0 50000 0 01203 N3
                              CAL DOTAG
                              ALS 2
00707 0 76700 0 00002
                              PBT
00710 -0 76000 0 00001
                              TRA NXTDO
00711 0 02000 0 00721
00712 0 56000 1 77627
                              LDQ TABLE-4,1
                        PUNN3 TSX CHECKA+4
00713 0 07400 4 01066
                              TPL IJKN3
00714 0 12000 0 00716
                              TSX ADOB • 4
      0 07400 4 01141
00715
                              TSX CHECKB . 4
00716 0 07400 4 01113 IJKN3
                              TPL NXTDO
00717 0 12000 0 00721
                              TSX ADOB 4
00720 0 07400 4 01141
                              TXI TXLS+1+5
00721 1 00005 1 00722 NXTDO
00722 -3 00000 1 00611 TXLS
                              TXL CLADO,1,0
                                                     SPACE OVER FORVAL
00723 0 76200 0 00222 SPACES RTB 2
                                                     SPACE OVER FORVAR
00724 0 76200 0 00222
                              RTB 2
                                                     SPACE OVER FORTAG
                              RTB 2
00725 0 76200 0 00222
                              TRA RDREC
00726 0 02000 0 00052
00727 0 07400 4 01022 CONBET TSX NOBETA:4
                              TSX ADOB +4
00730 0 07400 4 01141
                              TRA DOALF
                                                     AND TEST ALPHA
00731 0 02000 0 00643
                                                    GO THRO THIS TABLE FROM LAST TO FIRST
00732 -3 00002 1 00052 FRET TXL RDREC+1+2
                        NEXTT LXA IR4,2
00733 0 53400 2 01152
                        CLAT CLA TABLE+1,1
00734 0 50000 1 77634
                              TMI NEWFRT
00735 -0 12000 0 00740
00736 1 00001 2 00737
                              TXI TNEXT:2:1
                                                     WILL NOT FAIL BEFORE THE TMI
                        TNEXT TIX CLAT+1+1
00737 2 00001 1 00734
00740 -0 63400 2 01206 NEWFRT SXD FRETNB .2
                                                     SAVE NUMBER OF FREQUENCIES
                              ANA ADDMSK
00741 -0 32000 0 01157
                                                     FREQUENCY OF BETA IS IGNORED BY
                              STO ALFA
00742 0 60100 0 01170
                                                     FORTRAN IF NO CORRESPONDING BETA IN
                              TNZ BRANCH
00743 -0 10000 0 00745
                                                     COLUMN 1 TO 5 OF SOURCE PROGRAM
                              TRA NXTFRT
00744 0 02000 0 00763
00745 0 53400 4 01152 BRANCH LXA IR4.4
00746 0 50000 4 75433 TCLAT CLA ALPHA+4
                              ANA ADDMSK
00747 -0 32000 0 01157
                              CAS ALFA
00750 0 34000 0 01170
                              TRA TIXT
00751 0 02000 0 00753
                              TRA HAVALF
00752 0 02000 0 00756
      1 00001 4 00754 TIXT TXI FRETST.4.1
00754 -3 00000 4 00746 FRETST TXL TCLAT,4,0
                                                     SET AT END OF READING IN STOP TABLE
                              TRA NXTFRT
00755 0 02000 0 00763
00756 0 50000 4 75433 HAVALF CLA ALPHA+4
                                                     THE ONLY TIME A FREQUENCY STATEMENT CAN
                                                     LOUSE UP THE OBJECT PROGRAM IS WHEN
                              ANA DECMSK
00757 -0 32000 0 01161
                                                     THERE ARE MORE FREQUENCIES GIVEN THAN
                              SUB FRETNB
00760 0 40200 0 01206
                              TPL NXTFRT
                                                     BRANCHES•
00761 0 12000 0 00763
00762 0 07400 4 01022 FRETIF TSX NOBETA+4
00763 2 00001 1 00733 NXTFRT TIX NEXTT+1+1
                              TRA RDREC
00764 0 02000 0 00052
```

FIRST WORD IN TABLE WILL BE 35 ONES

00765 0 50000 0 77633 EQUIV CLA TABLE

```
IF THERE HAVE BEEN INCONSISTANT
                              SUB MSK35
00766 0 40200 0 01162
                              TNZ DIAGND
00767 -0 10000 0 00777
                              LXA IR4+1
00770 0 53400 1 01152
00771 0 50000 1 77632 NXTEQV CLA TABLE-1+1
                                                         LAST INCONSISTANCY IS FOLLOWED BY
                              SUB MSK35
00772 0 40200 0 01162
                                                         ANOTHER WORD OF ONES
                              TZE DIAGND
00773 0 10000 0 00777
       0 56000 1 77632
                              LDQ TABLE-1,1
00774
00775 0 07400 4 01033 NOTEQV TSX ERROR+4
                              TXI NXTEQV +1 +1
00776 1 00001 1 00771
00777 0 50000 0 01173 DIAGND CLA ERNBR
                                                    IF NO ERROR, READ IN SECTION II
                              TZE SPACE2
01000 0 10000 0 01263
                                                    SAVE FOR BIG D
01001 0 60100 0 00030
                              STO 24
                                                    PUT RECORD NUMBER IN 2 FOR PRINT OUT
                              CLA TW13
01002 0 50000 0 01171
                              STO 2
01003 0 60100 0 00002
                              LXA IR4+2
01004 0 53400 2 01152
                                                    SPACE OVER REST OF SYSTEM IN FORTRAN
91005 0 76200 0 00201 DIAGRD RTD 1
                              CPY 0
01006 0 70000 0 00000
01007 0 02000 0 01005
                              TRA DIAGRD
01010 1 00001 2 01011
                              TXI TST2FL,2,1
01011 -3 00001 2 01005 TST2FL TXL DIAGRD +2+1
                                                     END FILE SKIP, START TO READ BIG D
                              RTB 1
01012 0 76200 0 00221
01013 0 53400 1 01152
                              LXA IR4,1
01014 0 70000 1 00031 DCPY CPY 25:1
01015 1 77777 1 01014
                              TXI DCPY+1+-1
                              NOP
01016 0 76100 0 00000
                              TSX 26,4
01017 0 07400 4 00032 BIGD
                                                    REPLACED BY SPACE2 AT 1263. WAS REWIND
01020 0 76100 0 00000 REW
                              NOP
                              NOP
01021 0 76100 0 00000
                                  ENTER WITH AC ZERO. EXIT WITH TSX FROM TABLE
                                  WHICH HAS MISSING BETA, IN DEC OF AC AND
                                  ALPHA IN ADDRESS OF AC.
01022 -0 63400 4 01170 NOBETA SXD ALFA+4
                              TSX SAVALF ,4
01023 0 07400 4 01026
                              LXD ALFA 94
01024 -0 53400 4 01170
                              TRA 1,4
01025 0 02000 4 00001
                                 ENTER WITH HASH IN AC. EXIT WITH CONTENTS OF ALPHA IN AC.
01026 -0 63400 4 01177 SAVALF SXD ERAS+4
                             LXD ERNBR,4
01027 -0 53400 4 01173
01030 0 50000 0 01170
                              CLA ALFA
                              STO ERLIST +4
01031 0 60100 4 77777
                                                    SAME RETURN AS ERROR ROUTINE.
01032 1 00001 4 01044
                              TXI NEXTA,4,1
                                 ENTER WITH MQ=BCD SYMBOL OR HASH. 0. ALPHA
                                 MAKES 2 WORD ENTRY IN ERROR LIST
                                          1...KIND OF ERROR +0 + TABLE IN WHICH ERROR FOUND
                                           2...CONTENTS OF MQ
                                 EXIT AC HASH, MQ NOT CHANGED
                                                    PUT TSX FROM SECTION SCANNING
01033 -0 75400 4 00000 ERROR PXD 0,4
                              LXD ERNBR + 4
                                                    FOR ERROR, IN DEC OF 1ST WORD
01034 -0 53400 4 01173
                             STD ERAS
01035 0 62200 0 01177
                             STD ERLIST 4
01036 0 62200 4 77777
                                                    PUT TSX FROM OABLE IN WHI+H
                             CLA IR4
01037 0 50000 0 01152
                                                    ERROR WAS FOUND. IN ADDR. OF 1ST WORD
                             ARS 18
01040 0 77100 0 00022
                             STA ERLIST +4
01041 0 62100 4 77777
                             STQ ERLIST-1,4
                                                    PUT MQ IN 2ND WORD
01042 -0 60000 4 77776
```

```
1 00002 4 01044
                              TXI NEXTA,4,2
                              SXD ERNBR +4
01044 -0 63400 4 01173 NEXTA
                              LXD ERAS 4
01045 -0 53400 4 01177
                              TRA 194
01046 0 02000 4 00001
                                   ENTER WITH AC ALL ZERO, EXCEPT ADDRESS WHICH HAS BETA
                                  FROM TIFGO OR TDO, OR ALPHA+1 FROM SAME. EXIT SAME, EXCEPT
                                  WHERE MATCH IS FOUND, THEN AC HAS HASH
                                                      ERROR WILL RECORD WHICH TABLE WAS SCANNED
01047 -0 63400 4 01152 ISNONX SXD IR4,4
                              TRA PATS2
       0 02000 0 01274
                        CASH CAS NONEXT+2
       0 34000 2 74303
01051
                              TRA NEXTH
       0 02000 0 01054
01052
                                                      THIS WILL BE CHANGED TO BYPASS ERROR WHEN
       0 02000 0 01057 YESNOX TRA NONEXB
                        NEXTH TXI TXLH . 2 . 1
                                                      SCANNING BETA TABLE
      1 00001 2 01055
                        TXLH TXL CASH,2,0
01055 -3 00000 2 01051
                              TRA PATRE2
       0 02000 0 01277
                                                          ERROR, SAVE BETA AND ALPHA IN LIST
       .0 76700 0 00022 NONEXB ALS 18
01057
                              STD ALFA
       0 62200 0 01170
01060
                              LDQ ALFA
       0 56000 0 01170
01061
                              TSX ERROR + 4
       0 07400 4 01033 TSXH
01063 -0 53400 4 01152 INFORM LXD IR4+4
                                                      SET RETURN TO SHOW ERROR
                              SSM
01064 -0 76000 0 00003
                              TRA PATRE2
01065 0 02000 0 01277
                                  ENTER WITH HASH IN AC, MQ HAS BCD SYMBOL. EXIT WITH HASH IN
                                  AC AMD MQ, SYMBOL IS STORED IN NAME. DC IS MINUS ONLY WHEN
                                   ILLEGAL CHARACTER PRESENT
01066 -0 60000 0 01176 CHECKA STO NAME
                              SXD IR494
01067 -0 63400 4 01152
                              SXD IR2,2
01070 -0 63400 2 01151
                              SXD IR1:1
01071 -0 63400 1 01150
                                                      6 INTO IR1
                              LXD SYMBL,1
01072 -0 53400 1 01231
01073 0 53400 2 01231 NXTNAM LXA SYMBL +2
                                                      10 INTO IR2
                                                      CLEAR AC AND COMPARE NEXT BCD
                              PXD 0.0
01074 -0 75400 0 00000
                                                      CHARACTER WITH TABLE OF ILLEGAL SYMBOLS
                              LGL 6
01075 -0 76300 0 00006
                              CAS SYMBL . 2
                        ACAS
01076 0 34000 2 01231
                              TRA ATIX
01077 0 02000 0 01101
                              TRA WRONG
01100 0 02000 0 01107
                                                      GET NEXT ILLEGAL SYMBOL FOR COMPARISON
                              TIX ACAS,2,1
01101 2 00001 2 01076
                                                      GET NEXT BCD CHARACTER FOR COMPARISON
                              TIX NXTNAM+1+1
01102 2 00001 1 01073
01103 -0 53400 4 01152 RETNA
                              LXD IR4,4
                              LXD IR2,2
01104 -0 53400 2 01151
                              LXD IR1:1
01105 -0 53400 1 01150
                              TRA 1:4
01106 0 02000 4 00001
01107 0 56000 0 01176 WRONG
                              LDQ NAME
01110 0 07400 4 01033 CHATSX TSX ERROR,4
                                                      SIGNAL THAT ERROR HAS BEEN PICKED UP
                              SSM
01111 -0 76000 0 00003
                              TRA RETNA
01112 0 02000 0 01103
                                  ENTER WITH HASH IN AC + MQ. EXIT SAME EXCEPT WHERE NO MATCH-
                                  THEN MINUS
01113 0 56000 0 01176 CHECKB LDQ NAME
01114 -0 63400 4 01152
                              SXD IR4.4
                              LXA IJK,4
01115 0 53400 4 01215
01116 -0 75400 0 00000
                              PXD 0.0
                              LGL 6
01117 -0 76300 0.00006
                              CAS IJK,4
01120 0 34000 4 01215
                        BCAS
```

```
01121 0 02000 0 01123
                                TRA RETNB
01122 0 02000 0 01127
01123 2 00001 4 01120 BTIX TIX BCAS,4,1
                                LDQ NAME
01124 0 56000 0 01176
01125 0 07400 4 01033 CHBTSX TSX ERROR,4
                                SSM
01126 -0 76000 0 00003
01127 -0 53400 4 01152 RETNB LXD IR4,4
01130 0 02000 4 00001
                                    ENTER WITH BETA FROM TIFGO ENTRIES WHICH ARE MINUS OR HAVE O.
                                  3.4.5 OR 6 IN ADDRESS OF 1ST WORD. TIFGO 1 AND 2 ARE ALREADY
                                   IN BETA TABLE. EXIT WITH SAME.
01131 -0 63400 4 01177 MORBTS SXD ERAS:4
01132 -0 53400 4 00572
                          LXD BETANB 4
01133 0 60100 4 75434 STOBET STO BETA+4
                                TXI STBET+4+-1
01134 1 77777 4 01135
01135 -0 63400 4 00572 STBET SXD BETANB 4
                                SXD BETANB 4
01136 -0 63400 4 00572
                                LXD ERAS 4
01137 -0 53400 4 01177
                                TRA 194
01140 0 02000 4 00001
01141 -0 63400 4 01177 ADOB SXD ERAS 4
01142 -0 53400 4 01173 LXD ERNBR, 4
01143 0 50000 1 77633 CLA TABLE, 1
01144 0 60100 4 77777 STO ERLIST, 4
01145 0 50000 1 77632 CLA TABLE-1, 1
01146 0 60100 4 77776 STO ERLIST-1, 4
01147 1 00002 4 01044 TXI NEXTA, 4, 2
                               STO ERLIST-1,4
01147 1 00002 4 01044
01150 0 00000 0 00000 IR1 HTR
01151 0 00000 0 00002 IR2
                                HTR 2
01152 0 00000 0 00000 IR4
                                HTR 0
01153 0 00000 0 00001 ADDONE HTR 1
01154 0 00001 0 00000 DECONE HTR 0.0.1
01155 0 00002 0 00000 DECTWO HTR 0.0.2
01156 0 00003 0 00000 DECTRE HTR 0,0,3
                        ADDMSK OCT 000000077777
01157 +000000077777
                        TAGMSK OCT 000000700000
01160 +000000700000
01161 +077777000000
                         DECMSK OCT 077777000000
                        MSK35 OCT 37777777777
01162 +377777777777
01163 0 70000 1 77633 ADTABL CPY TABLE:1
01164 0 00000 0 75433 ADTIFG HTR TIFGOT
01165 0 70000 4 75435 ADTRAD CPY TRADT +4
01166 0 00000 0 00060 CPTRAD HTR COPYAA
01167 0 00000 0 01063 CHNONX HTR INFORM
01170 0 00000 0 00000 ALFA
01171 0 00000 0 00325 TW13 HTR 213
01172 0 00000 0 00000 TRADNB
       0 00000 0 00000 ERNBR
01173
      0 00000 0 00000 IDENT
01174
01175 0 00000 0 00000 WDCONT
01176 0 00000 0 00000 NAME
01177 0 00000 0 00000 ERAS
01200 0 00000 0 00000 XERAS
                                                        STORE NUMBER OF TIMES WORD COUNT WRONG
01201 0 00000 0 00000 BST
                                                        DITTO IDENTIFICATION
01202 0 00000 0 00000 BSTA
01203 0 00000 0 00000 DOTAG
```

TRA BTIX

```
0 00000 0 00000 DOBETA
01204
       0 76100 0 00000
01205
       0 00000 0 00000 FRETNB
01206
                               BCD 1000001
       000000000031
01207
                               BCD 100000K
01210
       000000000042
                               BCD 100000J
       000000000041
01211
                               BCD 100000L
01212
       000000000043
                               BCD 100000M
       000000000044
01213
                               BCD 100000N
       000000000045
01214
                               HTR 6,0,0
01215
       0 00000 0 00006 IJK
                               BCD 100000+
01216
       000000000020
                                                        OTHER MINUS SIGN
                               OCT 000000000014
01217 +000000000014
                               BCD 100000-
       000000000040
01220
                               BCD 100000/
       000000000061
01221
                               BCD 100000$
01222
       000000000053
                               BCD 100000(
       000000000074
01223
                               BCD 100000)
       000000000034
01224
                               BCD 100000=
       000000000013
01225
                               BCD 100000;
       000000000073
01226
                               BCD 100000.
       000000000033
01227
                               BCD 100000*
       000000000054
01230
                              HTR 11,0,6
       0 00006 0 00013 SYMBL
01231
      O 00000 O 00076 AFTRSZ HTR IDNTFY
                               OCT 000000000013
01233 +0000000000013
                               HTR SUBARG
01234
      0 00000 0 00155
                               OCT 000000000014
01235 +000000000014
                               HTR UPPER
01236 0 00000 0 00167
                               OCT 000000000000
01237 +0000000000000
                               HTR TEIFNO
01240 0 00000 0 00202
                               OCT 000000000002
01241 +0000000000002
                               HTR TIFGO
01242 0 00000 0 00220
                               OCT 000000000003
01243 +0000000000003
                              HTR TRAD
01244 0 00000 0 00232
                               OCT 00000000001
01245 +0000000000001
                               HTR TDO
01246 0 00000 0 00604
                               OCT 000000000007
01247 +0000000000007
                              HTR FRET
01250 0 00000 0 00732
                               OCT 000000000010
01251 +0000000000010
                               HTR EQUIV
      0 00000 0 00765
01252
       0 00000 0 00020 TAPTAB HTR 16
                                                       SIZ TABLE HAS CHECK SUM ENTRY NOT
      2 00001 1 01255 PTCH
                               TIX SZW+1+1
01254
                                                       NOT INCLUDED IN WORD COUNT
                               PXD 0:1
01255 -0 75400 1 00000
                               ARS: 18
      0 77100 0 00022
01256
                               TRA SUBWDS
       0 02000 0 00063
01257
      0 50000 0 01163 PATIF
                              CLA ADTABL
01260
                               STO COPY
       0 60100 0 00056
01261
                               TRA NOTIFG
       0 02000 0 00122
01262
       0 76200 0 00222 SPACE2 RTB 2
01263
                               RTB
       0 76200 0 00222
                                   2
                               100
      0 76600 0 00333
                               RTT
01266 -0 76000 0 00012
                              NOP
      0 76100 0 00000
01267
      0 02000 0 00004
                               TRA 4
01270
01271 0 10000 0 00577 PAGADD TZE NXTALF
```

01272	0	40000	0	01153		ADD	ADDONE
01273	0	02000	0	00562		TRA	ADDQ
01274	-0	63400	2	01301	PATS2	SXD	PATERA+2
01275	0	53400	2	01152		LXA	IR4+2
01276	0	02000	0	01051		TRA	CASH
01277	-0	53400	2	01301	PATRE2	LXD	PATERA 2
01300	0	02000	4	00001		TRA	1,4
01301	0	00000	0	00000	PATERA		
				00000		END	

REM BLOCK ONE OF SECTION TWO.

```
BLOCK ONE OF SECTION TWO.
                                                                                                   F2100000
                                      MASTER RECORD CARD = FN027
                                                                                                   F2100001
                                   BLOCK ONE OF SECTION TWO PERFORMS THE
                                                                                                   F2100002
                                   PRELIMINARY DO NEST STRUCTURE ANALYSIS
                                                                                                   F2100003
                                   REQUIRED FOR THE SUCCEEDING BLOCKS. IT AXSIGNS
                                                                                                   F2100004
                                   LEVEL NUMBERS AND THE POSSIBILITY OF CARRY.
                                   TRANSFERS OUT OF THE RANGE OF DOS ARE NOTED AND ENTERED
                                                                                                   F2100005
                                                                                                   F2100006
                                   INTO TABLE TRALEV. IF THERE IS A VARIABLE
                                   PARAMETER OF A DO ITS HIGHEST LEVEL OF DEFINITION
                                                                                                   F2100007
                                                                                                   F2100008
                                   IS ASSIGNED.
                                                                                                   F2100009
                                   FINALLY, A SEARCH IS MADE TO DETERMINE
                                                                                                   F2100010
                                   WHETHER A DO INDEX COUNTER IS
                                                                                                   F2100011
                                   NECESSARY TO KEEP CURRENT THE VALUES
                                                                                                   F2100012
                                   OF THE DO INDEX.
                                                                                                   F2100015
                               ORG 25
                 00031
                                                                                                   F2100017
                 00031 DOTAG
                              BSS 1
                                                                                                   F2100020
                 00032
                               BSS 1349
                                                                                                   F2100030
                 02537 DOTAGZ BSS 1
                                                                                                   F2100040
                 02540 TIFGO
                               BSS 1
                                                                                                   F2100050
                               BSS 599
                 02541
                                                                                                   F2100060
                               BSS 1
                 03670 TIFZ
                                                                                                   F2100070
                 03671 TRAD
                               BSS 1
                                                                                                  F2100080
                               BSS 249
                 03672
                                                                                                  F2100090
                 04263 TRADZ
                              BSS 1
                                                                                                  F2100100
                 04264 TRALEV BSS 1
                                                                                                  F2100110
                 04265
                               BSS 599
                                                                                                  F2100120
                 05414 TLTZ
                               BSS 1
                                                                                                  F2100130
                               ORG 1376
                 02540
                                                                                                  F2100140
                 02540 FORVAL BSS 1
                                                                                                  F2100150
                 02541
                               BSS 999
                                                                                                  F2100160
                 04510 4VALZ
                              BSS 1
                                                                                                  F2100170
                               ORG 1376
                 02540
                                                                                                  F2100180
                 02540 FORVAR BSS 1
                                                                                                  F2100190
                               BSS 1499
                 02541
                                                                                                  F2100200
                 05474 4VARZ BSS 1
                                                                                                  F2100210
                               ORG 476
                 00734
                                                                                                  F2100220
                 00734 FORTAG BSS 1
                                                                                                  F2100230
                               BSS 1499
                 00735
                                                                                                  F2100240
                 03670 FORTZ
                              BSS 1
                                   PROGRAM C ONSTANTS
                                                                                                  F2100250
                                                                                                  F2100260
                               ORG 2876
                 05474
                                                                                                  F2100270
                                   0.0.0
       0 00000 0 00000 L(0)
                                                                                                  F2100280
                                   0.0.1
       0 00001 0 00000 L(1)
05475
                                                                                                  F2100290
                                   0,0,2
       0 00002 0 00000 L(2)
05476
                                                                                                  F2100300
                                   0,0,3
       0 00003 0 00000 L(3)
05477
                                                                                                  F2100310
                                   0.0.4
       0 00004 0 00000 L(4)
05500
                                                                                                  F2100320
       0 00005 0 00000 L(5)
                                   0,0,5
05501
                                                                                                  F2100330
                                   0,0,6
       0 00006 0 00000 L(6)
C5502
                                                                                                  F2100340
       0 00011 0 00000 L(9)
                                   0.0.9
05503
                                                                                                  F2100350
                                   0,0,600
       0 01130 0 00000 L(600)
05504
                                                                                                  F2100360
       0 01750 0 00000 L(1000
                                   0,0,1000
05505
                                                                                                  F2100370
       0 02506 0 00000 L(1350
                                   0.0.1350
05506
                                                                                                  F2100380
      0 02734 0 00000 L(1500
                                   0,0,1500
05507
```

		_				W7E			F2100390
	05510	-0	00000	00000	L(MZ)	MZE	20000000000		F2100400
			0000000				10000000000		F2100410
			0000000				77777077777		F2100420
			77777077				77777000000		F2100430
			7777000			_			F2100440
			0000700		TAGMSK				F2100450
	05516	+00	000007	7777	ADDMSK	OCT		•	F2100460
			777747				-377777477777 100000		F2100470
			00000100		CR1		200000	•	F2100480
	05521	+00	00000200	0000	CR2	OC I	BEGIN BLO CK ONE.		F2100490
		_			T. DOO	REW			F2100500
	05522	0	77200 (00224	IAPOU				F2100510
	05523	0	77200	00223			147		F2100520
			76000			NOP			F2100530
	05525	_	76100			NUP	TTADE	POSITION TAPE TWO FOR READING IN TAPE TABLES ALL LIGHTS OFF TRALEY LIGHT 98 ON	F2100540
			76400 (D21	1 (01.1	FOR READING IN TAPE	F2100550
		-0	53400	05503	T4010	LXD	TTADE	TARIFS	F2100560
	05530				TAP10	531	TAD10-1-1	, ,	F2100570
	05531	2	00001	05530		117	(AP109191	ALL LIGHTS OFF	F2100580
	05532	0	76000	00140		PSE	96	TRALEV LIGHT 98 ON	F2100590
			76000			PSE	yo	READ	F2100600
			53400			LXU	TIEAD	IN	F2100610
			50000			CLA	DIADE-4	TIEFGO	F2100620
	05536	0	07400	+ 07060		134	TIEGO-1-1	SAVE NEXT UNUSED INDEX	F2100630
	05537	-0	63400	02537		SXD	11700-171	READ	F2100640
	05540	-0	53400	2 05411		CLAD	TRADAD	IN	F2100650
	05541	0	50000	07154		CLA	DTADE: 4	TRAD	F2100660
	05542	0	07400	4 07060		127	TTAPE L(9),1 TTAPE TAP10,1,1 96 98 L(2),2 TIFAD RTAPE,4 TIFGO-1,1 L(3),2 TRADAD RTAPE,4 TRAD-1,1 L(1),2 DOAD RTAPE,4 DOTAG-1,1 MR00,1,1349 99 TSAVAL	SAVE NEXT UNUSED INDEX	F2100670
	05543	-0	63400	03670		SXD	1KAU-191	READ	F2100680
	05544	-0	53400	2 05475		LXD	DOAD	IN	F2100690
			50000			CLA	DTADE - A	TOO WITH DOTAG FORMAT	F2100700
	Q5546	0	07400	4 07060		124	NIAPE94	SAVE NEXT UNUSED INDEX	F2100710
	05547	~_0	63400	1 00030		320	MD00-1-1249	TEST FOR EMPTY DOTAG	F2100720
****			02505			DCE	MROUFIFISTS	DOTAG EMPTY	F2100730
	05551		76000			TDA	TS4VAL	. DOTAG EIN TI	F2100740
	05552	0	02000	0 00201					F2100750
		_			MBOO	1 VD	DOTAG-1-1	INITIALIZE TEST	F2100760
			53400		MROU	CAD	MR 70 a 1	IN TDO WITH DOTAG FORMAT SAVE NEXT UNUSED INDEX TEST FOR EMPTY DOTAG DOTAG EMPTY (• CARRY BITS• INITIALIZE TEST INSTRUCTION•	F2100770
			63400			340	MROO COMPOTES LEVEL, 7 DOTAG-1,1 MR70,1 L(1350,1 L(1) 0,2 DOTAGZ+5,1 DOTAGZ,1 MR14,4 0,4 MR12	INITTALIZE XRA TO MAX DOTAG.	F2100780
		-0	53400	1 02206	MDOS	CIV	1 (1)	INITIALIZE LEVEL TO ONE	F2100790
	05556	Û	50000	J U54/5	MRUD	PUY	0.2	PUT LEVEL IN XRB	F2100800
			73400		MKIO	CTO	DOTAG7+5 • 1	STORE LEVEL IN L WORD	F2100810
	-		60100			510	DOTAGZ - 1	INSPECT TAG OF FIRST WORD)	F2100820
	05561		50000			CLA	MD 1 A . A		F2100830
			63400			DAY	0.4 		F2100840
			73400			CTD	MR12		F2100850
			62200			3,0	MR15 • 4		F2100860
	05565		00000				ERBETA BETA	LESS THAN OR EQUAL TO ALPHA	F2100871
	05566		02000				ENDE IN	The second secon	F2100880
	05567	0	00000	00000	MR14		MR14 • 4		F2100890
	05570	-0	53400	4 05567	MKID		TAGMSK	IF ZERO(TRA TO MR20)	F2100900
			32000				MR20	IF NOT ZERO(PUT BIT	F2100910
	05572		10000				BITTWO	IN L WORD FOR X NOT	F2100920
	05573	U	50000	7 02212		CLA	D2.1180	IN E WORD TON A MOT	

D

									,
	05574	-0	60200 1	0254	4	ORS	DOTAGZ+5+1	COMPUTABLE AND GO TO END. COMPUTE X AND STORE IN L WORD	F2100930 F2100940
٠.	05575	0	02000 0	0562	•	TRA	MR60	COMPUTE V AND STORE IN	F2100950
	05576	0	50000 1	0254	2 MR20	CLA	DOTAGZ+3.1	COMPUTE A AND STORE IN	F2100960
	05577	0	40200 1	0254	l	SUB	DOTAGZ+2+1	L WORD	F2100970
	0 5600	0	40000 1	0254	3	ADD	DO1AGZ+491		F2100980
	05601		76500 0		3	LRS	35		F2100990
	05602		22000 1		3	DVH	DOTAGZ+4+1		F2101000
	05603	0	20000 1	0254	3	MPY	DOTAGZ+491		F2101010
			76300 0		3	LLS	35		F2101020
	05605	0	62100 1	0254	4	STA	DOTAGZ+5+1	TE I TO ONE! CYTE CARRY TEST!	F2101020
	05606	-3	00001 2	0562	5	TXL	MR60+2+1	IF E 15 ONE! SKIP CARRI (ESI)	F2101030
	05607	0	50000 4	0253	7	CLA	DOTAGZ 94	OBJAIN NEXT DACK SUBNEST	F2101040
	05610	0	77100 0	0001	7	ARS	15	DOL PIRST WORDS IN SPECT ING	F2101050
	05611	. 0	76000 0	0000	1	LBT.		FOR VARIABLE N3) IF NOT	F2101000
	05612	0	02000 0	0561	4	TRA	MR30	O) VARIABLE CONTINUE WITH MR309	F2101070
	05613	0	02000 0	0562	5 .	TRA	MR60	1) OTHERWISE GO TO END.	F2101000
	05614	0	50000 4	0253	7 MR30	CLA	DOTAGZ • 4	OBTAIN FIRST WORD OF NEXT	F2101090
	05615	-0	32000 0	0551	3 .	ANA	DECADD	BACK SUBNEST DO REMOVE	F2101100
	05616	0	40000 0	0547	5	ADD	L(1)	TAG, AND ADD ONE TO ALPHA	F2101110
	05617	٥	40200 1	0253	7.	SUB	DOTAGZ + 1	SUB FIRST WORD CURRENT DO	F2101120
	05620	-0.	10000 0	0562	3	TNZ	MR40	(TAG IS ZERO). IF RESULT IS	F2101150
	05621	0	50000 0	0552	D-	CLA	CR1	ZERO, CARRY IS TYPE ONE,	F2101140
	05622	0	02000 0	0562	4	TRA	MR50	IF NOT ZERO, CARRY IS TYPE	F2101150
	05623	0	50000 0	0552	1 MR40	CLA	CR2	TWO. INDICATE TYPE IN	F2101160
	05624	-0	60200 1	0254	4 MR50	ORS	DOTAGZ+5,1	L WORD OF CURRENT DO.	F2101170
	05625	-0	75400 1	0000	0 MR60	PXD	0 + 1	MAKE CURRENT DO NEXT BACK	F2101100
	05626	-0	73400 4	0000	0	PDX	0 • 4	SUBNEST DO.	F2101190
	05627	1	77767 1	.0563	0	TXI	MR70.19	TAKE NEXT DO IN DOTAGE	F2101200
	05630	-3	00000 1	0731	6 MR70	TXL	ERTST:1:0	NO MORE DOS, EXIT TO TEST IF ERRORS	F2101211
	05631	. 0	50000 1	0253	7	CLA	DOTAGZ • 1	OBTAIN FIRST WORD NEW DOS	F2101220
	05632	-0	32000 0	0551	6	ANA	ADDMSK	OBTAIN BETA	F2101230
			60100 0		0	STO	MRES	AND SAVE	F2101240
	05634	0	50000 4	0253	7 MR75	CLA	DOTAGZ • 4	OBTAIN BETA OF ARC DOS	F2101250
,			32000 0		6	ANA	ADDMSK	AND SUBTRET NEW BETA.	F2101260
	05636.	0	60100 0	0566	1	STO	MRES1		F2101270
	05637	0	40200 0	0566	0	SUB	MRES	IF NOT NEGATIVE, XRC DO	F2101280
			12000 0		5	TMI	MR80	CONTAINS NEW DO. OTHERWISE, TRA.	F2101290
	05641	ŏ	50000 4	0254	4	CLA	DOTAGZ+5+4	XRC DO CONTAINS NEW DO.	F2101300
	05642	-0	32000 0	0551	4	ANA	DECMSK	OBTAIN LEVEL OF XRC DO,	F2101310
	05643	ō	40000 0	0547	5	ADD	L(1)	ADD ONE STORE IN L.	F2101320
	05644	-0	02000 0	0555	7	TRA	MR10	GO TO MRIO	F2101330
	05645	_	50000 1		7 MR80	CLA	DOTAGZ . 1		F2101340
	05646		32000 0		4	ANA	DECMSK		F2101350
	05647	ō	77100 0	0002	2	ARS	18		F2101360
	05650	ō	34000 0	0566	1	CAS	MRES1		F2101370
	05651		02000 0		- 4	TRA	MR85	ALPHA(XRA) GREATER THAN BETA(XRC)	F2101380
	05652	-	02000 0		3	TRA	ERLIST	EQUALITY	F2101391
			02000 0		3	TRA	ERLIST	LESS THAN	F2101401
	05654	.0	50000 4	0254	4 MR85	CLA	DOTAGZ+5 4		F2101410
	05655	-0	73400 2	0000	0	PDX	0 • 2	NEWDO. IF XRL DO IS OF	F2101420
	05654	-3	00001 2	0555	6	TXL	MR05 . 2 . 1	LEVEL ONE, START NEW NEST	F2101430
	05657	1	00001 4	0563	4	TXI	MR75,4,9	IF L IS ONE (SKIP CARRY TEST) OBTAIN NEXT BACK SUBNEST DO(FIRST WORD. IN SPECT TAG FOR VARIABLE N3) IF NOT 0) VARIABLE (CONTINUE WITH MR30, 1) OTHERWISE GO TO END. OBTAIN FIRST WORD OF NEXT BACK SUBNEST DO, REMOVE TAG, AND ADD ONE TO ALPHA. SUB FIRST WORD CURRENT DO (TAG IS ZERO). IF RESULT IS ZERO, CARRY IS TYPE ONE, IF NOT ZERO, CARRY IS TYPE TWO. INDICATE TYPE IN L WORD OF CURRENT DO. MAKE CURRENT DO IN DOTAG. NO MORE DOS. EXIT TO TEST IF ERRORS OBTAIN FIRST WORD NEW DO. OBTAIN BETA AND SAVE OBTAIN BETA OF XRC DO, AND SUBTRCT NEW BETA. IF NOT NEGATIVE, XRC DO CONTAINS NEW DO. OTHERWISE, TRA. XRC DO CONTAINS NEW DO. OBTAIN LEVEL OF XRC DO, ADD ONE, STORE IN L. GO TO MRIO ALPHA(XRA) GREATER THAN BETA(XRC) EQUALITY LESS THAN NEWDO. IF XRL DO IS OF LEVEL ONE, START NEW NEST BY TRA TO MROS. ELSE TRA MR75. ES	F2101440
	05660	_	00000 0		MRES	HTR		ES	F2101450
	05661		00000 0		MRES1	HTR	* · · · · · · · · · · · · · · · · · · ·		F2101460
	02001	v	30000	4400					

٠.							FI OW.	TRANSFER	ANALYSIS.		F2101470
05662	-0	53400	4	02537	FLOW	LXD	TIFGO-	-1.4		TEST FOR EMPTY TIFGO	F2101480
05662	2	01127	<u> </u>	06307	,	TXH	SV00 •4	4.599			F2101490
05005	-6	62400	7	00001		I YD	DOTAG	-1.1		INITIALI7F	F2101500
07004	-0	42400	•	05702		SAD	E1 030	.1		TEST	F2101510
05665	-0	63400	Ţ	05705		SXD	FLOSO	. 4		INCIDENTIONS	F2101520
05666	-0	63400	4	05723		270	PLUGUE	• 4		INSTRUCTIONS	F2101520
05667	-0	63400	ŀ	06240		SXD	AULOU	• 1			F2101550
05670	-0	63400	1	06113		SXU	INC401	• 1			F2101940
05671	-0	63400	1	06166		SXD	RNC 701	• 1			F2101550
05672	0	53400	1	06274		LXA	TL1504	•1		INITIALIZE TRALEV	F2101560
05673	-0	63400	1	06274		SXD	TL150	1		INDEX VALUE	F2101570
05674	-0	53400	4	05504	FL010	LXD	L (600)	94		INITIALIZE	F2101580
05675	-0	63400	4	06306		SXD	TIFX +4	4		CURRENT TIFGO INDEX	F2101590
05676	-0	53400	1	05506		LXD	L(1350	0,1		INITIALIZE XRA, DOTAG INDEX	F2101600
05677	0	50000	1	02544	FL015	CLA	DOTAGE	2+5•1		OBTAIN LEVEL OF DO	F2101610
05700	-0	73400	2	00000		PDX	0,2			AND	F2101620
05701	-3	00001	2	05705		TXL	FL0401	2,1		TRA IF LEVEL ONE. IF NOT	F2101630
05702	1	77767	1	05703	FL020	IXT	FL0301	1,-9		LEVEL ONE, FIND NEXT	F2101640
05703	3	00000	1	05677	FL030	TXH	FL015	• 1		LEVEL ONE, IF ANY.	F2101650
05704	Ō	02000	ō	05775		TRA	FLOEN)		•	F2101660
05705	-0	63400	ì	06275	FL040	SXD	BNX +1			SAVE BEGINNING OF NEST INDEX.	F2101670
05706	ŏ	50000	1	02537		CLA	DOTAGE	2.1		INITIALIZE	F2101680
05707	ŏ	73400	•	00000	·	PAX	0.2			BEGINNING OF NEST	F2101690
05710	-0	32000	ñ	05514	•	ANA	DECMSK			AND	F2101700
05711	-0	40100	ň	04276		STO	RNA	•		END OF NEST	F2101710
05711		75400	2	00270		DYD	0.42			ADDRESSES	F2101720
05712	-0	19400	~	00000		STO	ENA			ADDITECTED	F2101730
05713	0	60100	Ý	00211		310	TIEVA			ORTAIN CUIDENT TIEGO INDEY	F2101740
05714	-0	53400	4	06306	E1 050	CLA	TIEZA			AND SEADON FOR TIEGO	F2101750
05715	U	50000	4	03670	FLUSU	ANA	DECHE	,		ENTRY IN MECT.	F2101760
05716	-0	32000	0	05514		ANA	DECMOR	•		COMPADE WITH DNA	F2101700
05717	0	34000	0	06276		CAS	BNA			COMPARE WIIT DNA	F2101770
05720	0	02000	0	05/27		IKA	PLU/U		V 05 TH NO	COT ERROR ON EQUAL IO	F2101700
05721	0	07400	4	00004		15%	DIAGO	H BNA MA	IT BE IN NE	LECC THAN DAM CO DACK	F2101793
05722	1	77776	4	05723	FL055	1 X 1	FL0601	49-2		LESS (MAN BNA) GU BACK	F2101800
05723	3	00000	4	05/15	FL060	HXI	FL0509			FUR NEXT TENONE . EXIT	E2101010
05724	0	02000	0	05775		TRA	FLOEND	,		IF ANTA IF NONE EXT	F2101020
05725	-0	53400	1	06275	FL065	LXD	BNX + 1				F2101830
05726	0	02000	0	05702		TRA	FL020				F2101840
05727	-0	63400	4	06306	FL070	SXD	TIFX 94	•		SAVE CURRENT TIFGO INDEX	F2101850
05730	0	34000	0	06277		CAS	ENA			COMPARE G AND ENA	F2101860
05731	0	02000	0	05725		TRA	FL065			G GREATER, GO BACK FOR NEXT NEST.	F2101870
05732	0	76100	0	00000		NOP				G EQUAL TO	F2101880
05733	0	60100	0	06300		STO	G			OR LESS THAN G. SAVE G.	F2101890
05734	0	50000	4	03670		ČLA	TIFZ,4	•		TEST FOR THREE ADDRESS IF.	F2101900
05735	-0	12000	0	05743		IMT	FL075			USE ADDRESS TO DETERMINE	F2101910
05736	ō	73400	2	00000		PAX	0 + 2			WHETHER OR NOT THIS IS AN	F2101920
05737	-3	00005	2	05743		TXL	FL075,	2.5		ASSIGN FORMULA. IF IT IS:	F2101930
05740	-3	00006	2	05722		TXL	FL055.	2,6		IGNORE, TAKE NEXT TIFGO ENTRY	F2101940
05741	-3	00007	2	05743		TXL	FL075.	2,7		TEST FOR ADD. GREATER THAN	F2101950
05747	ó	07400	4	00004		TSX	DIAG . 4	SEVEN	•	ERROR. GO TO DIAGNOSTIC.	F2101965
05742	0	50000	ň	06300	FI 075	CLA	G			OBTAIN G	F2101970
05744	_^	53400	3	06275	, 2015	IXD	BNX - 1			OBTAIN CURRENT NEST INDEX	F2101980
UD /44	-0	07/00	<u>.</u>	06213		TCY	ADLOC.	4		OBTAIN XDG AND LDG	F2101990
UD /45	0	50000	^	06511		CLA	BITONE	•		PUT BIT IN DOTAG FOR TRA	F2102000
UD /46	U	50000	U	05511		LLA	51 , 0116	•		INITIALIZE TEST INSTRUCTIONS INITIALIZE TRALEV INDEX VALUE INITIALIZE CURRENT TIFGO INDEX INITIALIZE CURRENT TIFGO INDEX INITIALIZE XRA, DOTAG INDEX OBTAIN LEVEL OF DO AND TRA IF LEVEL ONE. IF NOT LEVEL ONE, FIND NEXT LEVEL ONE, IF ANY. SAVE BEGINNING OF NEST INDEX. INITIALIZE BEGINNING OF NEST AND END OF NEST ADDRESSES OBTAIN CURRENT TIFGO INDEX AND SEARCH FOR TIFGO ENTRY IN NEST. COMPARE WITH BNA GREATER THAN OR EQUAL TO IST. ERROR. GO TO DIAGNOSTIC. LESS THAN BNA, GO BACK FOR NEXT TIFGO ENTRY, IF ANY. IF NONE, EXIT SAVE CURRENT TIFGO INDEX COMPARE G AND ENA G GREATER, GO BACK FOR NEXT NEST. G EQUAL TO OR LESS THAN G, SAVE G. TEST FOR THREE ADDRESS IF. USE ADDRESS TO DETERMINE WHETHER OR NOT THIS IS AN ASSIGN FORMULA. IF IT IS, IGNORE, TAKE NEXT TIFGO ENTRY TEST FOR ADD. GREATER THAN ERROR. GO TO DIAGNOSTIC. OBTAIN G OBTAIN CURRENT NEST INDEX OBTAIN SUGGESTION OF TRA	

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05747	-0	60200 1	02545		ORS	DOTAGZ+6+1		IN IMMEDIATE RANGE.	F2102010
05750	-ŏ	75400 1	00000		PXD	0,1		SAVE	F2102020
05751	0	60100 0	06301		STO	XDG		XDG	F2102030
05752	-0	75400 2	00000		PXD	0.2		AND .	F2102040
05753	Õ	60100 0	06302		STO	LDG		LDG	F2102050
05754	0	50200 0	06300		CLS	G		LIST MINUS G	F2102060
05755	Õ	07400 4	06253		TSX	TLT00+4		IN TRALEV BUFFER.	F2102070
05756	~0	53400 4	06306		LXD	TIFX:4		OBTAIN FIRST WORD OF	F2102080
05757	0	50000 4	03670		CLA	TIFZ:4		TIFGO ENTRY	F2102090
05760	-0	12000 0	06001		TMI	3ADIF		TRA IF SADIF	F2102100
05761	Ð	73400 2	00000		PAX	0,2		PUT ADDRESS IN XRB	F2102110
05762	Õ	02000 2	05772	FL080	TRA	FL080+8,2		INDEXED TRA.	F2102120
05763	Õ	07400 4	00004		TSX	DIAG,4 7,	ROYS TRA.	ERROR. GO TO DIAGNOSTIC.	F2102135
05764	ŏ	07400 4	00004		TSX	DIAG+4 6+	ASSIGN FORMULA	ERROR. GO TO DIAGNOSTIC.	F2102145
05765	ō	02000 0	06005		TRA	2ADIF		5. 2 ADDRESS TYPE	F2102150
05766	ñ	02000 0	06005		TRA	2ADIF		4, 2 ADIF	F2102160
05767	ŏ	02000 0	06005		TRA	2ADIF		3, 2ADIF	F2102170
05770	ñ	02000 0	06016		TRA	GOTOVN		2 VECTOR TYPE TRA	F2102180
05771	ň	02000 0	06016		TRA	GOTOVN		1 GO TO N (ASSIGN)	F2102190
05772	ŏ	02000 0	06011		TRA	GOTOK		O GO TO CONSTANT	F2102200
05112	_^	53400 4	06306	FI 090	LXD	TIFX+4		GO BACK FOR NEXT	F2102210
05774	-0	77776 4	05723	12070	TXI	FL060+4+-2		TIFGO ENTRY.	F2102220
02114	-0	53400 1	06274	FLOFND	LXD	TLT50.1		TEST IF ANY TRALEV ENTRIES	F2102230
05774	-0	01127	06307	, 202	TXH	SV00+1+599			F2102240
05777	2	07400 4	06261		TSX	TLT20,4		IF SO, GO TO WRITE ROUTINE	F2102250
02111	ň	02000 0	06307	•	TRA	SVOO			F2102260
00000	·	02000 0	0030.	,		CONTROL ROL	JTINES		F2102270
A 6001	-0	32000 0	05516	3AD1F	ANA	ADDMSK		THE FOLLOWING ROUTINES	F2102280
06001	Õ	76700 0	00022		ALS	18		ARRANGE TO PROCESS ALL OF	F2102290
06002	ñ	07400 4	06033		TSX	FA000+4		THE ADDRESSES ASSOCIATED	F2102300
060005	_0	53400 4	06306		LXD	TIFX.4		WITH THE TIFGO ENTRY,	F2102310
06004	-0	50000 4	03671	2ADIF	CLA	T1FZ+1+4		ONE AT A TIME.	F2102320
06005	-0	32000 4	05514		ANA	DECMSK		WHEN ALL ADDRESSES	F2102330
06000	~	07400 4	06033		TSX	FA000+4		ARE PROCESSED,	F2102340
06007	_0	52400 A	06306		LXD	TIFX.4		CONTROL IS RETURED TO	F2102350
06010	-0	50000 4	03671	COTOK	CLA	T1FZ+1•4		FL090 FOR NEXT	F2102360
06011	-0	33000 4	05516	00 1011	ANA	ADDMSK		TIFGO ENTRY.	F2102370
00015	-0	76700 0	000022		ALS	18			F2102380
06013	•	07400 6	06022		TSX	FA000+4			F2102390
06014	0	02000 0	05773		TRA	FL090			F2102400
06015	. 0	50000 0	03671	GOTOVN	CLA	TIFZ+1.4		FOR GOTOV TRANSFERS,	F2102410
06016	0	72400 4	00000	0010111	PAX	0.4		USE WORD TWO	F2102420
0601.1	0	13400 4	06031		SYD	GTV20+4		FOR INDEXING	F2102430
06020	-0	63400 4	00000		DUX	0.4		VALUES NECESSARY	F2102440
06021	-0	73400 4	00000		TPA	GTV20			F2102450
06022	0	52000 0	00027	GTV10	CLA	TRADZ-4		TO GET ADDRESSES	F2102460
06023	0	74700 4	04203	31410	ALS	18		FROM TABLE TRAD.	F2102470
06024	Ü	10100 0	04022		ZXD	GTV30-4		FOR GOTON (ASSIGN) TYPE	F2102480
06025	-0	03400 4	06032		TSY	FA000.4		TRANSFERS. ALL ADDRESSES	F2102490
06026	Û	62400 4	06033		IXU	GTV30-4		MUST BE PROCESSED EVEN	F2102500
06027	-0	77777 4	06034		TYI	GTV20-41		THOUGH THEY ARE ON SAME	F2102510
06030	1	11111 4	00031	GTV20	TAN	GTV10-4		IN IMMEDIATE RANGE. SAVE XDG AND LDG LIST MINUS G IN TRALEV BUFFER. OBTAIN FIRST WORD OF TIFGO ENTRY TRA IF 3ADIF PUT ADDRESS IN XRB INDEXED TRA. ERROR. GO TO DIAGNOSTIC. ERROR. GO TO DIAGNOSTIC. 5, 2 ADDRESS TYPE 4, 2 ADIF 3, 2ADIF 2 VECTOR TYPE TRA 1 GO TO N (ASSIGN) 0 GO TO CONSTANT GO BACK FOR NEXT TIFGO ENTRY. TEST IF ANY TRALEV ENTRIES IF SO, GO TO WRITE ROUTINE THE FOLLOWING ROUTINES ARRANGE TO PROCESS ALL OF THE ADDRESSES ASSOCIATED WITH THE TIFGO ENTRY, ONE AT A TIME. WHEN ALL ADDRESSES ARE PROCESSED, CONTROL IS RETURED TO FLO90 FOR NEXT TIFGO ENTRY. FOR GOTOV TRANSFERS, USE WORD TWO FOR INDEXING VALUES NECESSARY TO GET ADDRESSES FROM TABLE TRAD. FOR GOTON (ASSIGN) TYPE TRANSFERS, ALL ADDRESSES MUST BE PROCESSED EVEN THOUGH THEY ARE ON SAME LEVEL BECAUSE OF CARRY RESTRICTIONS.	F2102520
06031	3	00000 4	06772	GTV20	TYI	F1 090 • 0		CARRY RESTRICTIONS.	F2102530
06032	-3	00000 0	U2113	GIVOU	IAL	ANALYSIS OF	ADDRESS		F2102540
						,			

	06033 -	^	62400	4	06076	FADDO	SXD	RS60+4		SAVE TSX SET	F2102550
	06033	ה ה	60100	7	06303	IAUUU	STO	A		SAVE ADDRESS	F2102560
	06035	ה ה	53400	ĭ	06275		LXD	BNX 41		OBTAIN	F2102570
	06035	ň	07400	<u>.</u>	06216		TSX	ADLOC+4		INDEX OF DO CONTAINING	F2102580
	06030	,	75400	7	00210		PYD	0.1		ADDRESS AND LEVEL OF	F2102590
	06037 -	~	60100	<u>, </u>	06306		STO	YDA		THAT DO.	F2102600
	06040	,	25400	Š	00304		PYD	0.2		SAVE IN	F2102610
	06041 -	Ŭ,	60100	~	06305		STO	1.04		XDA AND LDA	F2102620
	06042	3. (00034	2	06505		TYI	EA010.2.20		TEST LEVEL	F2102630
	06043 -	2 1	07400	<u>.</u>	000043		TSX	DIAGA4 LEVA ADD OF TRA	EX	CEEDS 20. ERROR. GO TO DIAGNOSTIC.	F2102645
	06044	ָ מ	77100	7	00004	EAGIO	ARS	18	/		F2102650
	05045	v	(2100	Š	00022	PAULU	STA	EAO20		TRANSFER	F2102660
	06046	0 (PZ100	Š	05031		CAL	1 (M7)		LEVEL IN	F2102670
	06047	9	50000	,	05510		LAD	YDG 1		XDG DO	F2102680
	06050 -	0 :	77100	,	00000	EA020	ADS	AD371			F2102690
A	06051	U	11100	Ÿ	00000	PAUZU	OPS	DOTAG7+7+1			F2102700
	06052 -	0 (50000	¥.	02346		CLA	104		LIST	F2102710
	06053	0 3	77100	~	00202		APS	18		ADDRESS AND LEVEL	F2102720
	06024	ν •	11100	×	00022		VUO.	A .		IN	F2102730
	06055	2	10000	,	06303		TSY	TI T00.4		TITA CONTINUE WITH RS00	F2102740
	00000	0 (01400	٠.	00233		137	TRANSFER BIT INSERTION	IN	DO FORMULA	F2102750
	04057	^	50400	•	06201	DS OO	LYD	VDG.1	•	XRA CONTAINS XDG	F2102760
	06057 -	0 :	53400	, T	00301	KSUU	LAD	1.06.2		XRB CONTAINS LDG	F2102770
	06060 -	0 :	2540U.	٠.	00000	DC10	DYD	0.2		IF G AND A IN SAME DO.	F2102780
	06061 -	•	15400	۲	00000	K310	CHE	104		FXIT. THIS ROUTINE INSERTS	F2102790
	06062	0 4	40200	0	06303		77E	INCOO		RIT MEANING THERE IS A JUMP	F2102800
	06063	·	10000	<u>.</u>	06011		TDI	DC20		OUT OF THE RANGE OF THIS DO.	F2102810
,	06064	•	12000	Ü	00000		TCV	NIACA HIMD INTO HIGHE	D 1	EVEL FREDRA GO TO DIAGNOSTICA	F2102825
	06065	0 (07400	4 .	00004	DC 20	CAL	1/M7)		LYLLY EMMOND OF THE PROPERTY.	F2102830
	06066 -	Ų :	00000	Ų	02210	K320	ODS	DOTAG7+5 - 1		•	F2102840
	06067 -	9 (00200	Ţ	04077		TVI	18000-2-1		FIND NEXT BACK SUBNEST	F2102850
	06070 -	,	00001	٤	00011	0030	TVI	DS40-1-0		DO FORMULA	F2102860
	06071	1 1	00011	•	00012	RSSO RSSO	CIA	DOTAG7+5 • 1		AND RETURN	F2102870
. '	06072	0 2	20000	<u></u>	04074	K340	SID	RS50		TO TEST	F2102880
_	06073	2 (02200	9	06074	DSEO	TYI	PS30 • 2		LEVEL	F2102890
D	06074 -	9 !	72400	2	00011	K350	BUX	0.2		AT	F2102900
_	06075 -	2 /	20000	~	06061	PSAN	TXI	RS10+0		RS10	F2102910
D	00010 -	۱۰ د	30000	•	08001	KSOO	, ,	INDEXING NO CARRY CONDIT	TIO	N	F2102920
	0/077	۸ ۱	50000	^	04205	INCOR	CLA	I DA		EXIT IF	F2102930
	06100	O .	10000	٠. م	06142	.11000	TZF	RNCOO		LDA IS ZERO.	F2102940
	06100	~ :	50000	~	06300		CLA	G	i	PLACE G ANDA	F2102950
	06101	0 :	56000	^	06300		100	Ā		IN	F2102960
	06102	0 2	04000	~	06303		TIO	TNC20		INCX AND INCY SO THAT	F2102970
	06105	0 Y	60100	~	06140		STO	INCX		INCX IS LESS THAN INCY.	F2102980
	06104	0 1	60000	2	06141		STO	INCY			F2102990
	06105 -	0 0	2000	~	06111		TRA	INC30			F2103000
	06100	0 1	60000	ň	06140	INC20	STO	INCX			F2103010
	06110	0 0	60100	0	06140	14620	STO	INCY			F2103020
	00110	0 0	20100	1	06304	1NC30	IXD	XDA+1		INITIALIZE XRA	F2103030
	00111 -	Ų :	77747	1	06112	INC 25	TYI	INC40+1+-9	ŕ	FIND DO OF LEVEL LDA	F2103040
_	06112	1	10111	1	06143	INCAO	TXI	RNC00+1	j	PLUS ONE.	F2103050
D	06113 -	ا د	50000	1	02544	INCHO	CLA	DOTAG7+5 • 1		SAVE TSX SET SAVE ADDRESS OBTAIN INDEX OF DO CONTAINING ADDRESS AND LEVEL OF THAT DO. SAVE IN XDA AND LDA. TEST LEVEL CEEDS 20. ERROR. GO TO DIAGNOSTIC. TRANSFER LEVEL IN XDG DO. LIST ADDRESS AND LEVEL IN XDG DO. LIST ADDRESS AND LEVEL IN TLT. CONTINUE WITH RS00 DO FORMULA XRA CONTAINS XDG XRB CONTAINS XDG XRB CONTAINS LDG IF G AND A IN SAME DO. EXIT. THIS ROUTINE INSERTS BIT MEANING THERE IS A JUMP OUT OF THE RANGE OF THIS DO. EVEL. ERROR. GO TO DIAGNOSTIC. FIND NEXT BACK SUBNEST DO FORMULA AND RETURN TO TEST LEVEL AT RS10 N EXIT IF LDA IS ZERO. PLACE G ANDA IN INCX AND INCY SO THAT INCX IS LESS THAN INCY.	F2103060
	06114	v :	20000		05514		ANA	DECMSK			F2103070
	00115 ***	0 3	60200 I	٥	02214		SUR	I DA			F2103080
	06116	U 4	+0200	U	ひりょりり		300	LVA			

	06117 0	40200 0	05475		SUB	L(1)		F2103090
	06120 0	10000 0	06123		TZE	INC50	DO OF LEVEL LDA PLUS ONE FOUND.	F2103100
	06121 0	12000 0	06112		TPL	INC35	LEVEL TO HIGH, GO BACK.	F2103110
	06122 0	02000 0	06142		TRA	RNC00	LEVEL TO LOW, DA EXHAUSTED.	F2103120
	06123 0	50000 1	02537	INC50	CLA	DOTAGZ + 1	OBTAIN BETA OF	F2103130
	06124 0	73400 2	00000	• • • • • • • • • • • • • • • • • • • •	PAX	0.2	THIS DO IN DECREMENT.	F2103140
	06125 -0	75400 2	00000		PXD	0.2		F2103150
	06126 0	34000 0	06341		CAS	INCY	COMPARE WITY INCY.	F2103160
	06120 0	02000 0	06142		TRA	RNCOO	GREATER THAN OR EQUAL TO	F2103170
	06127 0	02000 0	06142		TRA	RNCOO	GREATEST OF G. A. EXIT.	F2103180
	06130 0	34000 0	06140		CAS	INCX	LESS THAN INCY. COMPARE	F2103190
	06131 0	03000 0	06135		TRA	INCAO	WITH INCX. GREATER THAN	F2103200
	06132 0	02000 0	06135		TRA	INC60	OR EQUAL TO INCX. GO TO INC60.	F2103210
	06133 0	02000 0	06133		TPA	INC35	LESS THAN INCX. GET NEXT DO.	F2103220
	00134 0	52000 0	05112	111660	CAL	NCMSK	AND OUT CARRY BITS.	F2103230
	06135 -0	20000 0	02544	INCOO	ANG	NOTAG745 . 1	AND OUT CARRY DITO	F2103240
	06136 0	32000 1	02544		TDA	INCOE	GO BACK FOR NEXT DO.	F2103250
	06137 0	02000 0	06112	THEY	IKA	INCSS	EC.	F2103260
A	06140 0	00000 0	00000	INCX	HIK		E5+	F2103270
A	06141 0	00000 0	00000	INCY	HIK	PECET NO CARRY CONDITION	NO CADDY TRANSFER LEVEL	F2103210
				011500	c	RESET NO CARRY CONDITIONS	EVIT IE IDA IS 7EDO	F2103200
	06142 0	50000 0	06305	RNCOO	CLA	LDA	EXII IF LUA IS ZERO	F2103270
	06143 0	10000 0	06214		IZE	RNC95	EVIT 15	F2103300
	06144 0	50000 0	06302		CLA	LDG	LAII IF	F2103310
	06145 0	40200 0	06305		SUB	LDA	LDA EQUALS	F2103320
	06146 0	10000 0	06214		IZE	RNC95	TALITIALIZE COUNTED VD4	F2103330
	06147 -0	73400 4	00000		PUX	0,4	INITIALIZE COUNTER ARO	F2103340
	06150 -0	53400 1	06301		LXD	XDG • 1	INITIALIZE ARA	F2103330
	06151 0	50000 0	06302		CLA	LDG	AND CLACCI LDC.	F2103300
	06152 -0	73400 2	00000		PDX	0,2	CANDO LOC DUE ONE.	F2103310
	06153 1	00001 2	06161		IXI	RNC50+2+1	CIARDI LUG PLUS UNCO	F2103300
	06154 1	00011 1	06155	RNC20	TXI	RNC30+1+9	FIND NEXT BACK	F2103370
	06155 3	02506 1	06214	RNC30	TXH	RNC95,1,1350	20BNE21DO.	F2103400
	06156 0	50000 1	02544		CLA	DOTAGZ+5 . I		F2103410
•	06157 0	62200 0	06160		STD	RNC40		F2103420
D	06160 -3	00000 2	06154	RNC40	TXL	RNC20,2	64WE WD4	F2103430
	06161 -0	63400 1	06206	RNC50	SXD	RNC75+1	SAVE XKA	F2103440
	06162 0	62200 0	06212		STD	RNC85	SAVE LEVEL OF THIS DO	F2103470
	06163 -0	75400 2	00000		PXD	0,2	SAVE LEVEL OF NEXT INNER	F2103460
	06164 0	60100 0	06213		STO	RNC90	SUBNEST DO	F2103470
	06165 1	77767 1	06166	RNC60	TXI	RNC70+1+-9	TAKE NEXT DOWN DO IF ANY.	F2103480
D	06166 -3	00000 1	06207	RNC70	TXL	RNC80+1	DO OF LEVEL LDA PLUS ONE FOUND. LEVEL TO HIGH, GO BACK. LEVEL TO LOW, DA EXHAUSTED. OBTAIN BETA OF THIS DO IN DECREMENT. COMPARE WITY INCY. GREATER THAN OR EQUAL TO GREATEST OF G, A, EXIT. LESS THAN INCY, COMPARE WITH INCX. GREATER THAN OR EQUAL TO INCX. GO TO INC60. LESS THAN INCX. GET NEXT DO. AND OUT CARRY BITS. GO BACK FOR NEXT DO. ES. NO CARRY TRANSFER LEVEL EXIT IF LDA IS ZERO EXIT IF LDA EQUALS LDG INITIALIZE COUNTER XR6 INITIALIZE XRA AND XRB. C(ACC) LDG. C(XRB) LDG PLUS ONE. FIND NEXT BACK SUBNESTDO. SAVE XRA SAVE LEVEL OF THIS DO SAVE LEVEL OF NEXT INNER SUBNEST DO. TAKE NEXT DOWN DO IF ANY. IF BETA OF THIS DO IS LESS THAN G, TEST LEVEL TO SEE IF THIS DO IS OF SAME LEVEL AS NEXT INNERMOST SUBNEST DO. IF NOT, GET NEXT DO. IF SO, MAKE NO CARRY TRANSFER LEVEL OF THIS DO EQUAL TO GREATER OF PREVIOUS VALUE	F2103490
-	06167 0	50000 1	02537	•	ÇLA	DOTAGZ +1	IF BETA	F2103500
	06170 -0	32000 0	05516		ANA	ADDMSK	OF THIS DO	F2103510
	06171 0	76700 0	00022		ALS	18	IS LESS	F2103520
	06172 0	40200 0	06300		SUB	G	THAN G,	F2103530
	06173 0	12000 0	06207		TPL	RNC80	TEST LEVEL	F2103540
	06174 0	50000 1	02544		CLA	DOTAGZ+5 • 1	TO SEE IF	F2103550
	06175 -0	32000 0	05514		ANA	DECMSK	THIS DO IS OF SAME	F2103560
	06176 0	40200 0	06213		SUB	RNC90	LEVEL AS NEXT INNERMOST	F2103570
	06177 -0	10000 0	06165		TNZ	RNC60	SUBNEST DO. IF NOT, GET NEXT DO.	F2103580
	06200 0	50000 1	02545		CLA	DOTAGZ+6+1	IF SO, MAKE NO CARRY	F2103590
	06201 -0	32000 0	05514		ANA	DECMSK	TRANSFER LEVEL OF THIS	F2103600
	06202 0	40200 0	06305		SUB	LDA	DO EQUAL TO GREATER	F2103610
	06203 0	12000 0	06165		TPL	RNC60	OF PREVIOUS VALUE	F2103620
	40203 V		30202					

	06204 0 50000 0 06305	CLA LDA AND CURRENT LDA∙	F2103630
	06205 0 62200 1 02545	STD DOTAGZ+6:1	F2103640
D	06206 -3 00000 0 06165 RNCT	5 TXL RNC60+0 GO BACK FOR NEXT TEST DO	F2103650
	06207 -0 53400 1 06206 RNC8	0 LXD RNC75+1 GO BACK FOR NEXT SUBNEST DO+	F2103660
	06210 -0 53400 2 06212	LXD RNC85,2 IF COUNTER PERMITS.	F2103670
	06211 2 00001 4 06154	TIX RNC20,4,1 OTHERWISE, EXIT.	F2103680
D	06212 -3 00000 0 06214 RNC8	5 TXL RNC95+0	F2103690
Ă	06213 0 00000 0 00000 RNC9	O HTR ES	F2103700
^	06214 -0 53400 4 06076 RNC9	5 LXD RS60:4 GO BACK TO CONTROL ROUTINE	F2103710
	06215 0 02000 4 00001	TRA 1,4 FOR NEXT ADDRESS.	F2103720
		INDEX AND LEVEL OF ADDRESS	F2103730
	06216 -0 63400 4 06226 ADLO	C SXD ADL20,4 SAVE TSX SET	F2103740
	06217 -0 53400 4 05474	LXD L(0),4 INITIALIZE XRC,	F2103750
	06220 -0 63400 4 06227	SXD ADL30,4 AND DEC OF ADL30, PUT ADDRESS	F2103760
	06221 0 60100 0 06252	STO ADL90 IN ADL90. XRA CONTAINS BNX	F2103770
	06222 0 50000 1 02537 ADL1	O CLA DOTAGZ:1 OBTAIN FIRST WORD.	F2103780
	06223 0 73400 2 00000	PAX 0,2 SAVE BETA	F2103790
	06224 -0 32000 0 05514	ANA DECMSK GET ALPHA ALONE.	F2103800
	06225 0 34000 0 06252	CAS ADL90 COMPARE WITH ADDRESS. IF	F2103810
	06225 -3 00000 0 06244 ADL2	O TXL ADL70:0 ALPHA NOT LESS THAN ADD: THEN	F2103820
D ·	06227 =3 00000 0 06244 ADL3	O TXL ADL70.0 ADD IN LAST CHOOSEN DO.	F2103830
ט	06227 -0 75400 2 00000	PXD 0.2 IF ALPHA LESS THAN ADD,	F2103840
	06230 -0 75400 2 00000	CAS ADL90 COMPARE WITH BETA.	F2103850
	06231 0 34000 0 00232	NOP IF BETA IS NOT LESS THAN	F2103860
	06232 0 03000 0 06336	TRA ADL40 ADDRESS THIS DO CONTAINS	F2103870
	06233 0 02000 0 06230	TXH ADL50.4.0 ADDRESS. EXIT IF OUT OF NEST	F2103880
	06234 3 00000 4 06251	TRA ADI 70 TO ADL 70. OTHERWISE, GO TO 50	F2103890
	06235 0 02000 0 06244 06237 ADI 4	0 SXD ADI 30.1 IF DO IN THIS NEST, SXD.	F2103900
	06236 -0 63400 1 00227 ADL-	O TXI ADL60.19 IN ANY CASE, TAKE NEXT DOWN	F2103910
	06237 1 77767 1 00240 ADLA	O TXL ADL70.1 DO. IF ANY.	F2103920
D	06240 = 0 00000 1 00244 8000	CLA DOTAG7+5.1 PUT LEVEL IN XRC.	F2103930
	06241 0 30000 1 02344	PDX 0.4 AND GO BACK FOR TEST	F2103940
	06242 -0 73400 4 00000	TYH ADI 10.44-1 UNLESS NGW DO HAS LEVEL ONE.	F2103950
	06243 3 00001 4 06222	O IXD ADI 30.3 OBTAIN XDA IN XRA, XRB.	F2103960
	06244 -0 53400 3 06221 MOLT	TYL ADLANGIAN EXIT IF ZERO.	F2103970
	06245 -3 00000 1 06250	CLA DOTAGZ+5-1 IF NOT ZERO* GET LDA IN	F2103980
	06246 0 50000 1 02544	DDY 0-2 XRB+ PUT	F2103990
	06247 -0 /3400 2 00000	O LYD ADIZO-4 TSX SET IN XRC	F2104000
	06250 -0 53400 4 06226 ADE	TDA 1.4 AND RETURNS	F2104010
	06251 0 02000 4 00001	A LITE	F2104020
Α	06252 0 00000 0 00000 ADES	TRALEV LISTING .	F2104030
	0 50/00 1 0/07/ TITO	O LYD TITSOAL OBTAIN CURRENT TRALEV	F2104040
	-06253 -0 53400 1 06274 1610	STO TITZAL INDEXA STORE ENTRY	F2104050
	06254 0 60100 1 05414	TVI TLT10-11 IF TABLE NOW FULL, GO TO	F2104060
	06255 1 77777 1 06256	TAPE WRITING ROUTINE	F2104070
	06256 -0 63400 1 06274 ILII	O SAU TITOLIA	F2104080
	06257 -3 00000 1 06261	TAL ILIZO9190 OFFICE AND RETIREN	F2104090
	06260 0 02000 4 00001	O HOC TITADE CELECT TADE TO WRITE AMAY	F2104100
	06261 0 76600 0 00224 TLT2	U WKS ILIAPE SELECT TAPE TO BRITE AWAT	F2104110
	06262 -0 53400 1 06274	LXU (LIDU) I DUFFERO INITIALIAL ARA	F2104120
	06263 -0 63400 1 06272	SXU ILI40:1 AND IEST INSING	F2104130
	06264 -0 76000 0 00142	MSE 98 JURN OFF FRALEY TAPE EMPTY	F2104130
	06265 0 76100 0 00000	NOP LIGHT	F2104140
	06266 0 53400 1 06274	LXA TLT50+1 KE-INITIALIZE INDEX QUANTITIES	F2104120
	06267 -0 63400 1 06274	CLA LDA STD DDTAGZ+6-1 5 TXL RNC60-0 0 LXD RNC75-1 LXD RNC75-1 LXD RNC85-2 TIX RNC20-4-1 TIX RNC20-4 TIX RNC20-4-1 TIX RNC20-4 TIX R	L 5 T 04 T 0 0

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F2104170
                                                            COPY BUFFER.
      0 70000 1 05414 TLT30
                              CPY TLTZ:1
                                                                                                F2104180
                              TXI TLT40,1,-1
      1 77777 1 06272
                                                                                                F2104190
      3 00000 1 06270 TLT40
                              TXH TLT30:1
                                                            RETURN.
                                                                                                F2104200
                              TRA 194
      0 02000 4 00001
06273
                                                             BUFFER SIZE
                                                                                                F2104210
      0 00000 0 01130 TLT50
                              HTR 600
                                                                                                F2104220
                                  ES FORFLOW
                                                                                                F2104230
                                                             BEGINNING OF NEST INDEX
                              BSS 1
                 06275 BNX
                                                                                                F2104240
                                                            BEGINNING OF NEST ADDRESS
                 06276 BNA
                              BSS 1
                                                            END OF NEST ADDRESS
                                                                                                F2104250
                 06277 ENA
                              BSS 1
                                                                                                F2104260
                                                            GAMMA OF SOME TIFGO ENTRY
                 06300 G
                              BSS 1
                                                            INDEX OF DO WITH G IN IMMED.
                                                                                                F2104270
                 06301 XDG
                              BSS 1
                                                                                                F2104280
                                                            RANGE. LEVEL OF XDG.
                 06302 LDG
                              B$S 1
                                                            AN ADDRESS TO WHICH G TRANSFERS.
                                                                                                F2104290
                 06303 A
                              BSS 1
                                                            INDEX OF DO WITH A IN IMMED.
                                                                                                F2104300
                 06304 XDA
                              BSS 1
                                                                                                F2104310
                                                            RANGE. LEVEL OF XDA.
                              BSS 1
                 06305 LDA
                                                            CURRENT TIFGO INDEX.
                                                                                                F2104320
                 06306 TIFX
                              BSS 1
                                  DO SYMBOL DEFINITION OF VARIABLE RANGES AND INCREMENTS.
                                                                                                F2104330
                                                                                                F2104340
06307 -0 53400 1 00030 SV00
                              LXD DOTAG-1:1
                                                                                                F2104350
                              SXD SV80.1
06310 -0 63400 1 06333
                                                                                                F2104360
                              SXD SV95 1
06311 -0 63400 1 06340
                                                                                                F2104370
06312 -0 63400 1 06510
                              SXD TRA40.1
                                                                                                F2104380
                                                            INITIALIZE XRA
                              LXD L(1350,1
06313 -0 53400 1 05506
                                                            SAVE CURRENT DO INDEX
                                                                                                F2104390
06314 -0 63400 1 06325
                              SXD 5V44,1
                                                                                                F2104400
                                                            SAVE NEST INDEX
                              SXD SV98,1
06315 -0 63400 1 06345 SV10
                                                            OBTAIN FIRST WORD CURRENT
                                                                                                F2104410
06316 0 50000 1 02537 SV20
                              CLA DOTAGZ 1
                                                                                                F2104420
                                                            DO AND INSPECT TAG.
06317 -0 32000 0 05515
                              ANA TAGMSK
                                                            IF ZERO, GO TO INDEXING.
                                                                                                F2104430
                              TZE SV90
06320 0 10000 0 06337
                                                            OTHERWISE, NEST INDEX IN XRC.
                                                                                                F2104440
                              LXD SV98,4
06321 -0 53400 4 06345
                                                                                                F2104450
                                                            OBTAIN SYM OF XRC.
                              CLA DOTAGZ+1,4
06322 0 50000 4 02540 SV30
                                                                                                F2104460
                                                            INITIALIZE XRB COUNTER
                              LXD L(3),2
06323 -0 53400 2 05477
                                                            AND TEST FOR SYM EQUALS VAR.N.
                                                                                                F2104470
                              CAS DOTAGZ+4,1
06324 0 34000 1 02543 SV40
                                                                                                F2104480
                                                            CURRENT DO INDEX STORAGE.
06325 -3 00000 0 06327 SV44
                              TXL SV50,0
                                                            INDEX STO. OF N IN CUR. DO.
                                                                                                F2104490
06326 -3 00000 0 06346 SV48
                              TXL SF00.0
                                                                                                F2104500
                                                            TAKE NEXT N. COUNT
06327 1 00001 1 06330 SV50
                              TXI SV60,1,1
                                                                                                F2104510
                                                            IN XRB AND GO BACK.
                              TIX SV40,2,1
06330 2 00001 2 06324 SV60
                                                            SYM NOT VAR.N., PUT CURRENT
                                                                                                F2104520
06331 -0 53400 1 06325 SV65
                              LXD SV44,1
                                                            DO INDEX IN XRA AND INDEX
                                                                                                F2104530
                              TXI SV80,4,-9
06332 1 77767 4 06333 SV70
                                                            XRC. IF TABLE ENDS, GO70 SU90.
                                                                                                F2104540
                              TXL SV90,4
06333 -3 00000 4 06337 SV80
                                                            OTHERWISE TEST FOR NEW NEST.
                                                                                                F2104550
                              CLA DOTAGZ+5,4
06334 0 50000 4 02544
                                                                                                F2104560
                                                            IF NOT NEW NEST. GO BACK TO
                              PDX 0,2
06335 -0 73400 2 00000
                                                                                                F2104570
                                                            TEST SYM. OTHERWISE.
                              TXH 5V30,2,1
06336 3 00001 2 06322
                                                                                                F2104580
                                                            TAKE NEXT DOWN DO IF
                              TXI SV95,1,-9
06337 1 77767 1 06340 SV90
                                                                                                F2104590
                                                            POSSIBLE. OTHERWISE, EXIT
06340 -3 00000 1 06567 SV95
                              TXL TS4VAL 1
                                                                                                F2104600
                                                            SAVE CURRENT DO INDEX.
                              SXD SV44,1
06341 -0 63400 1 06325
                                                                                                F2104610
                              CLA DOTAGZ+5,1
06342 0 50000 1 02544
                                                                                                F2104620
                                                            INSPECT LEVEL.
                              PDX 0+2
06343 -0 73400 2 00000
                                                            IF NOT NEW NEST. TRA SV20
                                                                                                F2104630
                              TXH SV20,2,1
06344 3 00001 2 06316
                                                            IF NEW NEST, SV10 (NEST INDEX STO.)F2104640
                              TXL SV10.0
06345 -3 00000 0 06315 SV98
                                                            SAVE INDEX OF N IN CURRENT DO.
                                                                                                F2104650
06346 -0 63400 1 06326 SF00
                              SXD SV48 1
                                                            SAVE N COUNTER.
                                                                                                F2104660
                              SXD SF10,2
06347 -0 63400 2 06356
                                                                                                F2104670
06350 -0 63400 4 06361
                              SXD SF15,4
                                                            SAVE INDEX OF SYMBOL DO
                                                                                                F2104680
                              PXD 0+4
06351 -0 75400 4 00000
                                                                                                F2104690
                                                            IN FULL WORD.
                              STO SFES1
06352 0 60100 0 06467
                                                            OBTAIN INDEX OF CURRENT DO
                                                                                                F2104700
                              LXD SV44.1
06353 -0 53400 1 06325
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	06354	-0	75400	1	00000		PXD	0.1		IN ACC. AND COMPARE WITH INDEX OF SYMBOL DO. CURRENT INDEX GREATER. EQUALITY SYMBOL INDEX GREATER, TURN ON LIGHT 97. CUR. IND. GREATER, PUT IN XRC SYM. IND. IN XRA. LIGHT 97 OFF. AT SF30, XRA CONTAIN LEAST OF CUR. IND, SYM. IND. XRC CONTAINS GREATER. PUT IN ES. PUT LEVEL OF DIXRA) IN XRB. HALT IF LEVEL ERROR. GO TO DIAGNOSTIC. BACK UP IN XRA HALT IF TOP OD DOTAG ERROR. GO TO DIAGNOSTIC. THIS ROUTINE, BY RAISING XRA, EXITS TO SF80 OR SF90 UPON FINDING A DO IN THE SUBNEST OF XRA WHICH IS THE DO OF XRC AND CURRENT DO. GO BACK FOR NEXT DO THIS ROUTINE (THROUGH SF76) USES TRAOO TO DETERMINE THE GREATEST EXIT LEVEL OF DEFINITION FROM A DO SYM NOT IN THE SUBNEST OF A DO WITH VARIABLE NS, BUT IN A SUBNEST WHICH HAS A NON EMPTY INTERSECTION WITH THAT SUB NEST. EOUALITY, IF SYM DO IS ERROR. GO TO DIAGNOSTIC. OBTAIN LEVEL OF DEFINITION AND STORE IN ADDRESS PART OF SFESI. INDEX OF VAR.N. IN CUR. DO.	F2104710
	06355	- 2	34000	ŏ	06467	6510	TVI	SE30-0		CHIPDENT INDEX CREATED.	F2104720
D	06326	-5	00000	ŏ	00202	3F 1U	TDA	SF2090		FOUNT ITY	F2104130
	06337	٥	74000	٥	00141		DSE	07		SYMBOL INDEX OPENTED.	F2104740
_	06360	. 0	76000	Š	00141	CC16	TYL	SE30.0		TUPN ON LIGHT O7.	F2104750
Đ	00301	-0	53400	0	06200	SE30	IND	SV44.4		CHR. IND. GREATER. PUT IN YRC	F2104180
	00302	-0	53400	7	06525	3120	LXD	SEEC1.1		SYMA INDA IN YRA.	F2104170
	06363	-0	74000	Ť	00407		MSE	97		I IGHT 97 OFF.	F2104700
	06364	-0	76100	0	00141		NOP	71		AT SERO YRA CONTAIN LEAST	F2104800
	06363	-0	75400	,	00000	SE30	DYD.	0.4		OF CUR. IND. SYM. IND. YRC	F2104810
	06367	-0	60100	7	06467	31 30	STO	SFFS1		CONTAINS GREATER PUT IN ES.	F2104820
	06370	ñ	50000	ĭ	02544	SF35	CLA	DOTAGZ+5 • 1		PUT LEVEL OF DIXRAI IN	F2104830
	06371	-0	73400	•	00000	0. 55	PDX	0 • 2		XRB. HALT IF	F2104840
	06372	3	00001	2	06374		TXH	SF40.2.1		LEVEL	F2104850
	06373	ő	07400	4	00004		TSX	DIAG+4 IS ONE		ERROR. GO TO DIAGNOSTIC.	F2104865
	06374	ĭ	00011	i	06375	SF40	TXI	SF50+1+9		BACK UP IN XRA	F2104870
	06375	-3	02506	1	06377	SF50	TXL	SF60+1+1350		HALT IF TOP OD DOTAG	F2104880
	06376	Ō	07400	4	00004		TSX	DIAG 4 PASSED.		ERROR. GO TO DIAGNOSTIC.	F2104895
	06377	0	50000	1	02544	SF60	CLA	DOTAGZ+5 • 1		THIS ROUTINE, BY RAISING	F2104900
	06400	0	62200	0	06401		STD	SF70		XRA+ EXITS TO SF80 OR	F2104910
D	06401	-3	00000	2	06374	SF70	TXL	SF40,2		SF90 UPON FINDING A DO	F2104920
	06402	-0	75400	1	00000		PXD	0,1		IN THE SUBNEST OF XRA	F2104930
	06403	0	34000	0	06467		CAS	SFES1		WHICH IS THE DO OF XRC OR	F2104940
	06404	0	02000	0	06407		TRA	SF73		CONTAINS THE DO OF XRC	F2104950
	. 06405	0	02000	0	06431		TRA	SF80		AND CURRENT DO.	F2104960
	06406	. 0	02000	0	06370		TRA	SF35		GO BACK FOR NEXT DO	F2104970
	06407	-0	63400	1	06422	SF73	SXD	SF76 • 1		THIS ROUTINE (THROUGH SF76)	F2104980
	06410	-0	53400	1	06361	SF74	LXD	SF15+1		11050 30400	F2104990
	06411	0	07400	4	06470		TSX	TRA00,4		USES TRACO	F2105000
	06412	0	10000	0	06465		126	SPEND		TO DETERMINE THE	F2105010
	06413	Û	90100	0	06423		310	SF / 0		CDEATEST SYLT LEVEL OF	F2105020
	06414	-0	53400	ī	06422		CXD	DOTAGRAS - 1		DESINITION FROM A	F2105030
	06415	0	50000	Ţ	02544		ANA	DECMEN		DO SYM NOT IN THE	F2105040
	06416	-0	32000	Ŏ	02214		CAS	CE70		CHRNECT OF A DO WITH	F2105050
	06417	Ŏ	54000	Š	06423		CHA	SF78		VARTARIE NC. RUT IN A	F2105000
	06420	0	76100	0	00000		NOP	31 10	•	SUBNEST WHICH HAS A	F2105080
_	06421	-3	10100	0	06627	SF76	TYI	SF90.0		NON EMPTY INTERSECTION	F2105090
D	06422	-2	00000	0	00000	SF78	HTR	51 7070		WITH THAT SUB NESTA	F2105100
A	06423	۸	50000	1	02544	SF79	CLA	DOTAGZ+5 • 1			F2105110
	06425	-0	32000	ô	05514	J	ANA	DECMSK			F2105120
	06425	0	40200	ñ	05475		SUB	L(1)			F2105130
	06427	-0	10000	ñ	06437		TNZ	SF90			F2105140
	06430	Ô	02000	Ô	06465		TRA	SFEND			F2105150
	06431	-0	76000	ō	00141	SF80	MSE	97		EQUALITY, IF SYM DO IS	F2105160
	06432	ō	07400	4	00004	• • • •	TSX	DIAG 4 CURRENT	DO,	ERROR. GO TO DIAGNOSTIC.	F2105175
	06432	ō	50000	Ó	05511		CLA	BITONE			F2105180
	06434	-0	60200	ī	02544		ORS	DOTAGZ+5 +1			F2105190
	06435	ō	50000	ī	02544		CLA	DOTAGZ+5 , 1		OBTAIN LEVEL OF DEFINITION	F2105200
	06436	-0	32000	0	05514		ANA	DECMSK		AND STORE	F2105210
	06437	0	77100	0	00022	\$F90	ARS	18		IN ADDRESS PART	F2105220
	06440	Õ	60100	0	06467		STO	SFES1		OF SFESI.	F2105230
	06441	-0	53400	1	06326		LXD	\$V48 • 1		INDEX OF VAR.N. IN CUR. DO.	F2105240

	06442 0	5000	0 1	02547		CLA	DOTAGZ+8+1	-OBTAIN PREVIOUS LEV. DEF. AND COMPARE WITH NEW. EXIT UNLESS NEW LEV. IS LARGGER, IN WHICH CASE REPLACE OLD WITH NEW OBTAIN N COUNTER IN XRB OBTAIN VAR. N IN ACC. GO TO INDEXING. COMPARE, TO FIND DUPLICATE N S. DUPE FOUND. INDEX IN DO FORMULA AND IN COUNTER REPLACE OLD LEVEL OF DEFINITION. GO BACK FOR NEXT SYMBOL DO ES. RANSFER LEVEL OUT OF DO FORMULA OBTAIL LEVEL OF DO USE MAX LEV TWENTY INITIALIZE TEST INSTR. COMPUTE 35 MINUS (L MINUS ONE) AND INITIALIZE SHIFT INSTR. INITIALIZE SHIFT INSTR. INITIALIZE ES LOCATION TO ZERO OR INTO TRANS ALL THE T2 WORDS OF THIS DO AND AND ALL DOS CONTAINED BY THIS DO. PUT MASK IN QUOTIENT REGISTER, SHIFT COMPUTED AMOUNTS TO CONSTRUCT MASK IN ACC. AND IN UNION OF T2 WORDS. EXIT IF ZERO. OBTAIN LOW ORDER BIT IN ACC.	F2105250
	06443 -0	3200	ŏ	05516		ANA	ADDMSK	AND COMPARE	F2105260
	06444 0	3400	0 0	06467		CAS	SFES1	WITH NEW.	F2105270
	06445 0	0200	0 0	06465		TRA	SFEND	EXIT UNLESS	F2105280
	06446 0	0200	0 0	06465		TRA	SFEND	NEW LEV.	F2105290
	06447 0	5000	0 0	06467		CLA	SFES1	IS LARGGER, IN WHICH CASE	F2105300
	06450 0	6210	0 1	02547		STA	DOTAGZ+8,1	REPLACE OLD WITH NEW	F2105310
	06451 -0	5340	0 2	06356		LXD	SF10+2	OBTAIN N COUNTER IN XRB	F2105320
	06452 0	5000	0 1	02543	SF92	CLA	DOTAGZ+4 .1	OBTAIN VAR. N IN ACC.	F2105330
	06452 0	0200	0 0	06457		TRA	SF96	GO TO INDEXING.	F2105340
	06454 0	3400	0 1	02543	SF94	CAS	DOTAGZ+4+1	COMPARE + TO FIND DUPLICATE	F2105350
	06455 0	0200	0 0	06457		TRA	SF96	N S.	F2105360
	06455 0	0200	0 0	06462		TRA	SF99	DUPE FOUND.	F2105370
	06456 0	0200	1 1	06460	SE96	TXI	SF98 • 1 • 1	INDEX IN DO FORMULA	F2105380
	06457 1	0000	1 2	06454	SFOR	TIX	SF94.2.1	AND IN COUNTER	F2105390
	06460 2	0000	7 6	06465	3. 70	TPA	SEEND		F2105400
	06461 0	5000	0 0	06467	SFOO	CLA	SEES1	REPLACE	F2105410
	06462. 0	4214	0 0	02547	3. 77	STA	DOTAG7+8+1	OLD LEVEL	F2105420
	06463 0	9210	0 1	02541		TDA	SEQ2	OF DEFINITION.	F2105430
•	06464 0	0200	0 0	06452	CEEND	1 40	SF15.4	GO BACK FOR NEXT	F2105440
	06465 -0	5340	0 4	100301	SPEND	TDA	CVAS	SYMBOL DO	F2105450
	06466 0	0200	U	06331	CEEC1	UTD	3403	FG.	F2105460
A	06467 0	0000	0 0	00000	SPESI	HIK	CDEATEST TO	PANSEER LEVEL OUT OF DO FORMULA	F2105470
					T 0400	C1 A	DOTAG745 - 1	ORTALI LEVEL OF DO	F2105480
	06470 0	5000	0 1	02544	IRAUU	CLA	001A02+311	HEF MAY LEV TWENTY	F2105490
	06471 -0	7340	0 2	. 00000	T0410	PUX	TD 420 - 2 - 20	OGE PINA GET THEM!	F2105500
	06472 -3	0002	4 2	06474	IRAIU	IXL	TRA2092920	•	F2105510
	06473 -0	5340	0 2	06472		LXD	TRA1092	INITIALIZE TEST INCTO.	F2105520
	06474 -0	6340	0 2	06513	TRAZU	200	1KA5U12	COMPUTE LEVEL MINUS ONE	F2105530
	06475 -0	7540	0 2	00000		PXU	092	AND INITIALIZE SHIFT INSTRA	F2105540
	06476 0	7710	0 0	00022		AKS	18	COMPUTE 25 MINUS (1 MINUS	F2105550
	06477 0	4020	0 0	06537		SUB	TRANI	ONE I AND	F2105560
	06500 0	6210	0 0	06515		SIA	TRA70	INITIALITE	F2105570
	06501 0	4020	0 0	06540		SUB	TRANZ	INTITALIZE	F2105580
	06502 0	6210	0 0	06516		STA	TRA80	SMIFI INSINO	F2105500
	06503 -0	7540	0 0	00000		PXD	0 • 0	INITIALIZE	F2105570
	06504 0	6010	0 0	06542		STO	TRAN5	ES LOCATION TO ZERO	F2105600
	06505 -0	5000	0 1	02546	TRA30	CAL	DOTAGZ+7,1	OR INTO TRANS ALL THE	F2105010
	06506 -0	6020	0 0	06542		ORS	TRAN5	T2 WORDS OF THIS DO	F2105620
	06507 1	7776	7 1	06510		TXI	TRA40,1,-9	AND ALL DOS CONTAINED	F2105630
D	06510 -3	0000	0 1	06514	TRA40	TXL	TRA60:1	BY THIS DO.	F2105640
	06511 0	5000	0 1	02544		CLA	DOTAGZ+5 1		F2105650
	06512 -0	7340	0 2	00000		PDX	0,2		F2105660
D	06513 3	0000	0 2	06505	TRA50	TXH	TRA30.2	,	F2105670
	06514 0	5600	0 0	06541	TRA60	LDQ	TRAN4	PUT MASK IN QUOTIENT	F2105680
A	06515 0	7630	0 0	00000	TRA70	LLS		REGISTER, SHIFT COMPUTED	F2105690
A A	06516 0	7676	0 0	00000	TRA80	ALS		AMOUNTS TO CONSTRUCT	F2105700
^	06517 -0	3200	0 0	06542		ANA	TRAN5	MASK IN ACC. AND IN	F2105716
	06520 0	1000	0 0	06536		TZE	TRA95	UNION OF T2 WORDS. EXIT IF ZERO.	F2105720
	06520 0	6030	0 0	06542		STO	TRAN5	OBTAIN LOW ORDER BIT	F2105730
	06521 0	0010	0 0	06527		SUB	TRAN1	IN ACC.	F2105740
	06522 0	6010	0 0	06542		STO	TRAN6		F2105750
	06525 0	5010	0 0	06542		ORA	TRAN5		F2105760
	06524 -0	2016	0 0	06542		SUB	TRAN6		F2105770
	06525 0	4020	0 0	00243		LAD	1 (1) 41		F2105780
	06526 -0	234(U	U2472		LAU	- 1 - 1 - 1 - 1	·	

06527 0 34000 1 06567 TRA85	CAS TRATAB+19.1	SEARCH TABLE TO OBTAIN LEVEL INTEGER ERROR. GO TO DIAGNOSTIC. PUT LEVEL IN ACC DECREMENT EXIT.	F2105790
06530 0 02000 0 06532	TRA TRA86	TO OBTAIN	F2105800
06531 0 02000 0 06535	TRA TRA90	LEVEL INTEGER	F2105810
06532 1 00001 1 06533 TRA86	TXI TRA87,1,1		F2105820
06533 -3 00023 1 06527 TRA87	TXL TRA85,1,19		F2105830
06534 0 07400 4 00004	TSX DIAG:4	ERROR. GO TO DIAGNOSTIC.	F2105845
06535 -0 75400 1 00000 TRA90	PXD 0:1	PUT LEVEL IN ACC DECREMENT	F2105850
06536 0 02000 4 00001 TRA95	TRA 194	EXIT.	F2105860
06537 0 00000 0 00001 TRAN1	HTR 1		F2105870
06540 0 00000 0 00043 TRAN2	HTR 35		F2105880
06541 +37777777777 TRAN4	OCT 37777777777		F2105890
06542 0 00000 0 00000 TRAN5	HTR	•	F2105900
06543 0 00000 0 00000 TRAN6	HTR		F2105910
	OCT 200000		F2105920
06545 +000000400000	OCT 400000	·	F2105930
06546 +000001000000	OCT 1000000		F2105940
06547 +000002000000	OCT 2000000	·	F2105950
06550 +000004000000	OCT 4000000	•	F2105960
06551 +000010000000	OCT 10000000		F2105970
06552 +000020000000	OCT 20000000		F2105980
06553 +000040000000	OCT 40000000		F2105990
06554 +000100000000	OCT 100000000		F2106000
06555 +000200000000	OCT 20000000		F2106010
06556 +000400000000	QCT 40000000		F2106020
06557 +001000000000	OCT 1000000000		F2106030
06560 +002000000000	OCT 200000000		F2106040
06561 +004000000000	OCT 4000000000		F2106050
06562 +010000000000	OCT 10000000000		F2106060
06563 +020000000000	OCT 2000000000		F2106070
06564 +040000000000	OCT 40000000000		F2106080
06565 +100000000000	OCT 100000000000		F2106090
06566 +200000000000	OCT 200000000000		F2106100
00,00 (200000000000000000000000000000000	FORVAL TABLE	SEARCH FOR VARIABLE RANGES AND INCREMENTS	F2106110
06567 0 50000 0 07152 TS4VAL			F2106120
	LXD L(6) .2	FORVAL	F2106130
			F2106140
06572 -3 01747 1 06575	TXL TSV10+1+999		F2106150
06573 0 76000 0 00144	PSE 100	IF FORVAL EMPTY. SET	F2106160
06574 0 02000 0 06753	TRA T190	SENSE LIGHT AND EXIT	F2106170
06575 -0 63400 1 06652 TSV10	SXD TS40.1	IF FORVAL EMPTY. SET SENSE LIGHT AND EXIT INITIALIZE TEST INSTRS.	F2106180
06576 -0 63400 1 06673	SXD TS75:1		F2106190
06577 -0 76000 0 00143	MSE 99	TEST FOR EMPTY DOTAG	F2106200
06600 0 02000 0 06603	TRA TSV20	OFF , NOT EMPTY	F2106210
06601 0 76000 0 00143	PSF 99	ON, DOTAG EMPTY	F2106220
06602 0 02000 0 06753	TRA 1190	EXIT	F2106230
06602 -0 53400 1 00030 TSV20	IXD DOTAG-1-1	DOTAG TEST INITIALIZING	F2106240
06571 0 07400 4 07060 06572 -3 01747 1 06575 06573 0 76000 0 00144 06574 0 02000 0 06753 06575 -0 63400 1 06652 TSV10 06576 -0 63400 1 06673 06577 -0 76000 0 00143 06600 0 02000 0 06603 06601 0 76000 0 00143 06602 0 02000 0 06753 06603 -0 53400 1 00030 TSV20 06604 -0 63400 1 06650	SXD TS35.1	EXIT DOTAG TEST INITIALIZING	F2106250
06605 -0 53400 1 05506	LXD L(1350+1	INITIALIZE XRA	F2106260
06606 -0 53400 4 05505	LXD L(1000,4		F2106270
06607 -0 63400 4 06755	SXD XFOR,4	,-	F2106280
06610 -0 76000 0 00141 TS00	MSE 97		F2106290
	NOP	·	F2106300
	CLA DOTAGZ+5+1		F2106310
	PDX 0,2	DO IN XRB. IF L IS ONE.	F2106320
06613 -0 73400 2 00000	FUA 014	DO TH VIOL II F 10 OHE	

									_
	06614 -3	00001 2	06621	T	ΧL	TS15.2.1		GO TO NEST PROCEDURE. IF L IS NOT ONE AND LIGHT IS OFF, GO TO INNER DO PRECEDURE. IF LIGHT IS ON, CONTINUE INDEXING FOR NEXT NEST. L IS ONE, DO NEST PROCEDURE. ESTABLISH BEGINNING OF NEST ADDRESS BNA, AND END OF NEST ADDRESS ENA. SEARCH IN FORTAG UNTIL FOR NRS. FOUND GREATER THAN ENA. IF NONE, EXIT FROM ENTIRE ROUTINE. TEST WHETHER FIRST SUCH NR. IS IN NEST IF NOT, IF SO, (ERROR. GO TO DIAGNOSTIC.)	F2106330
	06615 -0	76000 0	00141	M	SE	97		L'IS NOT ONE AND LIGHT IS	F2106340
•	06616 0	02000 0	06644		RA	T530+0		OFF GO TO TANER DO PRECEDURES	F2106350
	06617 0	76000 0	00141	P	SE	97		IF LIGHT IS ON! CONTINUE	F2106360
	06620 1	77767 1	06650	1	ΧI	T535•1•-9		INDEXING FOR NEXT NEST	F2106310
	06621 -0	76000 0	00141	TS15 M	SE	9 7			F3104300
	06622 0	76100 0	00000	N	OP			I IS ONE DO NEST PROCEDURE.	F2106390
	06623 0	50000 1	02537		LA	DOTAGZI		ESTABLISH DEGINNING OF	F2106410
	06624 0	73400 2	00000	P	AX	0.2		ESTABLISH DEGINATING OF	F2106410
	06625 -0	32000 0	05514	· A	NA	DECMSK		MEST ADDRESS BNAT AND	F2106420
	06626 0	60100 0	06756	S	10	IRNA		CEARCH IN FORTAG UNIT!	F2106440
	06627 -0	75400 2	00000	P	XD	092		EOD NOC. EOUND GREATER	F2106450
	06630 0	60100	06757	5	10	I ENA		THAN ENA. IE NONE. FYIT	F2106460
	06631 -0	53400 4	06755		χU	XFUR 94	•	EDOM ENTIRE PONTINE.	F2106470
	06632 0	50000	06756		LA	IBNA		TEST WHETHER FIRST CHON	F2106480
	06633 0	34000 4	04510	1520	AS	4VAL494		ND. IS IN NEST IF NOT.	F2106490
	06634 1	77776 4	06652		Y T	1340949-Z	MEYT NECT.	IF SO, (ERROR. GO TO DIAGNOSTIC.	F2106505
	06635 0	07400 4	00004	i	27	VEOD-4	MENT MEST	GO TO INDEXING INSTRA	F2106510
	06636 -0	63400 4	06755	5	XU	TENA		FOR NEXT DO.	F2106520
	06637 0	50000 0	06/5/		LA	IENA		TOR HEAT DOT	F2106530
	06640 0	40200 4	04510	3	OB	4VAL494			F2106540
	06641 0	12000 0	06643	i	PL C	1525	DECODD NO	FORMAL FALLS IN THIS NESTA	F2106550
	06642 0	76000	00141	7C25 T	35	71 TC25 - 1 - = 0	RECORD NO	TORVAL TABLES IN THIS RESTA	F2106560
	06643 1	77161	06650	1525 1	Y 1	1000119-9		INNER DO PROCEDURE.	F2106570
	06644 0	20000 1	02531	1530 (LA NA	TAGMSK		TEST FOR NON ZERO TAG.	F2106580
	06645 -0	32000 0	00010	Ť	NA NZ	TESO		IN WHICH CASE TRA FOR	F2106590
	06646 -0	77767	06650	TC22 T	Y I	TS35.10		TABLE SEARCH. OTHERWISE.	F2106600
•	06650 3	00000	06612	TS35 T	XH	TS10-1		INDEX FOR NEXT DO. IF POSSIBLE.	F2106610
D	06650 3	00000 1	06752	TS38 T	XI.	T190+0		EXIT. STORAGE FOR INDEX CUR. DO.	F2106620
D	06651 -3	00000 0	06633	T540 T	ХH	T520+4		INDEX TEST FOR FORVAL	F2106630
D	06652 3	02000	06753	1040 ·	RA	T190		EXIT	F2106640
	06654 -0	63400 1	06651	TS50 S	ΧD	TS38•1		SAVE INDEX OF CURRENT DO	F2106650
	06655 -0	63400 2	06722	S	XD	T110•2		SAVE LEVEL OF CURRENT DO	F2106660
	06656 -0	53400 4	06755	Ĺ	XD	XFOR • 4		OBTAIN FORVAL INDEX IN XRC	F2106670
	06657 -0	53400 2	05477	TS55 L	XD	L(3),2		PUT THREE IN XRC	F2106680
	06660 -0	53400 1	06651	L	XD	TS38+1		CURRENT DO IN XRA	F2106690
	06661 0	50000 0	06757	Č	LA	TENA		TEST FOR END OF NEST	F2106700
	06662 0	40200 4	04510	ŝ	UB	4VALZ+4			F2106710
	06663 -0	12000 0	06647	T	ΜI	TS33		NOT IN NEST+TRA FOR NEXT DO.	F2106720
	06664 0	50000 4	04511		LA	4VALZ+1,4		IN NEST OBTAIN FORTAG	F2106730
	06665 0	34000 1	02543	TS60 C	AS	DOTAGZ+4.1		SYMBOL, COMPARE WITH VAR	F2106740
	06666 0	02000 0	06670	T	RA	TS65		N SYMBOLS.	F2106750
	06667 0	02000 0	06676	T	RA	TS80		EQUALITY	F2106760
	06670 1	00001 1	06671	TS65 T	ΧI	TS70:1:1		INDEX IN XRA;	F2106770
	06671 2	00001 2	06665	TS70 T	ΙX	TS60:2:1		COUNT IN XRB	F2106780
	06672 1	77776 4	06673	T	ΧI	TS75,4,-2		TAKE NEXT FORTAG ENTRY.	F2106790
D	06673 3	00000 4	06657	TS75 T	хн	TS55 • 4		IF ANY	F2106800
-	06674 -0	53400 1	06651	L	ΧD	TS38 • 1		RESTORE CURRENT DO INDEX	F2106810
	06675 1	77767 1	06650	Ţ	ΧI	TS35+1+-9		AND TRA FOR NEXT DO.	F2106820
	06676 -0	63400 2	06743	TS80 S	ΧD	T148,2		SAVE VAR. N. COUNTER.	F2106830
	06677 -0	63400 1	06742	S	ΧD	T144+1		SAVE COUNTER OF SYM IN DO	F2106840
	06700 -0	53400 1	06651	L	ΧĐ	TS38,1		CURRENT DO INDEX IN XRA	L 5 1 0 6 8 5 0
	06701 -0	53400 2	06722	L	ΧD	T110•2		NR. IS IN NEST IF NOT; IF SO; (ERROR. GO TO DIAGNOSTIC.) GO TO INDEXING INSTRS. FOR NEXT DO. FORVAL FALLS IN THIS NEST. INNER DO PROCEDURE. TEST FOR NON ZERO TAG. IN WHICH CASE TRA FOR TABLE SEARCH. OTHERWISE, INDEX FOR NEXT DO, IF POSSIBLE. EXIT; STORAGE FOR INDEX CUR. DO. INDEX TEST FOR FORVAL EXIT SAVE INDEX OF CURRENT DO SAVE LEVEL OF CURRENT DO OBTAIN FORVAL INDEX IN XRC PUT THREE IN XRC CURRENT DO IN XRA TEST FOR END OF NEST NOT IN NEST. TRA FOR NEXT DO. IN NEST OBTAIN FORTAG SYMBOL; COMPARE WITH VAR N SYMBOLS. EQUALITY INDEX IN XRA, COUNT IN XRB TAKE NEXT FORTAG ENTRY, IF ANY RESTORE CURRENT DO INDEX AND TRA FOR NEXT DO. SAVE VAR. N. COUNTER. SAVE COUNTER OF SYM IN DO CURRENT DO INDEX IN XRA CURRENT DO LEVEL IN XRB	L 2 T 0 9 9 D D

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06702 1 00001 2 06703 TXI TS85,2,1 ADJUST XRB FOR CURRENT DO TEST.
06703 0 50000 1 02544 TS85 CLA DOTAGZ+5,1 OBTAIN NEXT BACK DO IN
06704 0 62200 0 06705 STD TS90 SUBNEST. ON FIRST TIME
06705 3 00000 2 06711 TS90 TXH T100,2 THROUGH, CURRENT DO IS
06706 1 00011 1 06703 TS92 TXI TS85,1,9
06707 2 00001 2 06706 TS94 TIX TS92,2,1
06710 0 07400 4 00004 TSY DIAGAC TE NOT IN NEST
                                                                                                        F2106870
                                                                                                          F2106880
                                                                                                      F2106890
                                                                                                          F2106900
                                                                                                          F2106910
                                                                                                          F2106920
                                                                              ERROR. GO TO DIAGNOSTIC. F2106935
                                  TSX DIAG.4 IF NOT IN NEST.
 06710 0 07400 4 00004
                           06711 0 50000 1 02537 T100
 06712 -0 32000 0 05514
 06713 0 40200 4 04510
 06714 0 12000 0 06707
 06715 0 50000 1 02537
 06716 -0 32000 0 05516
                                                                                                          F2107000
06717 0 76700 0 00022 ALS 18
06720 0 40200 4 04510 SUB 4VALZ,4
06721 -0 12000 0 06707 TMI TS94
                                                                                                          F2107010
                                                                                                          F2107020
06721 -0 12000 0 06707 TMI TS94
06722 -3 00000 2 06724 T110 TXL T120*2
06723 0 02000 0 06746 TRA T170 APPARENT DEFINITION OF A VARIABLE N WITHIN RANGE OF THE DO WITH VARIABLE N. IGNORE AND
                                                                                                          F2107030
                                                                                                         F2107044
F2107046
 06745 2 00001 2 06741 T160 TIX T140+2+1
                                                                                                       F2107230
                                TXI TS75,4,-2
 06746 1. 77776 4 06673 T170
                                                                                                          F2107240
 06747 0 50000 0 06754 T180 CLA T195
                                                                                                        F2107250
                                  STA DOTAGZ+8,1
 06750 0 62100 1 02547
                                        EXIT
ES
FORTAG INDEX
ES
FC
OF SYMBOL WITH!"
                                                                                                        F2107260
                                  CLA DOTAGZ+4,1
06752 1 00001 1 06745
 06751 0 50000 1 02543
                                                                                                          F2107270
                                  TXI T160+1+1
                                                                                                          F2107280
 06753 0 02000 0 06760 T190 TRA RH00
                                                                                                         F2107290
 06754 0 00000 0 00000 T195
                                HTR
                                                                                                       F2107300
 06755 0 00000 0 00000 XFOR
                                HTR
                                  HTR
 06756 0 00000 0 00000 TBNA
                                                                                                          F2107320
 06757 0 00000 0 00000 TENA
                                  HTR
                                  USE OF SYMBOL WITHIN RANGE AS FXD POINT VAR. FORVAR SEARCH. F2107330
LXD L(5):2 READ IN F2107350
CLA 4VARAD FORVAR FORVAR F2107350
F2107360
 06760 -0 53400 2 05501 RH00 LXD L(5)+2 READ IN
 06761 0 50000 0 07155
                           TSX RTAPE+4
TXH RH95+1+1499
                                                                                                         F2107360
                                                     EXIT IF FORVAR EMPTY
 06762 0 07400 4 07060
                                                                                                        F2107370
 06763 3 02733 1 07053
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06764	-0	76000	0	00143		MSE	99	TEST FOR EMPTY DOTAG.	F2107380
06765	0	02000	0	06770		TRA	RH05	NOT EMPTY.	F210/390
06766	0	76000	0	00143		PSE	99	EMPIY, RESIONE SENSE LIGHT	F2107400
06767	0	02000	0	07053		TRA	RH95	AND EXIT	F2107410
06770	-0	63400	1	07032	RH05	SXD	RH60.91	PORVAR TEST	F2107420
06771	-0	63400	1	07043		SXD	RH75 • 1	INITIALIZING.	F2107430
06772	-0	53400	1	00030		LXD	DOTAG-1,1	DOTAG TEST	F2107440
06773	-0	63400	1	07052		SXD	RH90+1	INITIALIZING	F2107450
06774	-0	53400	1	05507		LXD	L(1500+1	MAX WORDS IN FORVAL	F2107460
06775	-0	63400	1	07054		SXD	RHNNX+1	IN NEXT NEST INDEX.	F2107470
06776	-0	76000	0	00141		MSE	97	TURN LIGHT 97 OFF.	F2107480
06777	0	76100	0	00000		NOP			F2107490
07000	-0	53400	1	05506		LXD	L(1350+1	PUT MAX WDS IN DOTAG IN XRA.	F2107500
07001	0	50000	1	02537	RH10	CLA	DOTAGZ • 1	OBTAIN FIRST DOTAG WORD.	F2107510
07002	0	73400	2	00000		PAX	0,2	SEPARATE ALPHA AND BETA,	F2107520
07003	-0	32000	0	05514		ANA	DECMSK	STORE IN RFIRST AND RLAST.	F2107530
07004	0	60100	0	07056		STO	RFIRST		F2107540
07005	-0	75400	2	00000	2	PXD	0,2		F2107550
07006	0	60100	0	07057		STO	RLAST		F2107560
07007	0	50000	1	02544		CLA	DOTAGZ+5:1	OBTAIN LEVEL IN XRB.	F2107570
07010	-0	73400	2	00000		PDX	0,2		F2107580
07011	3	00001	2	07017		TXH	RH30+2+1	TRA IF LEVEL GREATER THAN ONE.	F2107590
07012	-0	76000	0	00141		MSE	97	LEVEL IS ONE, TEST WHETHER,	F2107600
07013	0	02000	0	07015		TRA	RH20	ON LAST LEVEL ONE, FORVAR	F2107610
07014	Ô	02000	0	07053		TRA	RH95	EXHAUSTED. IF SO, EXIT.	F2107620
07015	-0	53400	4	07054	RH20	LXD	RHNNX • 4	OTHERWISE, ADJUST FORVAR	F2107630
07016	-0	63400	4	07055		SXD	RHCNX 9 4	INDEX TO SKIP LAST NEST AREA.	F2107640
07017	-0	53400	4	07055	RH30	LXD	RHCNX+4	PUT FORVAR INDEX IN XRC.	F2107650
07020	0	50000	0	07056		CLA	RFIRST	BEGIN SEARCH FOR FIRST	F2107660
07021	0	34000	4	05474	RH40	CAS	4VARZ+4	FORVAR ENTRY IN RANGE.	F2107670
07022	1	77776	4	07032		TXI	RH60+4+-2		F2107680
07023	0	07400	4	00004		TSX	DIAG 94	ERROR. GO TO DÍAGNOSTIC.	F2107695
07024	-0	63400	4	07055		SXD	RHCNX 9 4	SAVE INDEX AT THIS POINT	F2107700
07025	0	50000	0	07057	RH50	CLA	RLAST	FOR NEXT DO: AND COMPARE	F2107710
07026	Õ	34000	4	05474		CAS	4VARZ,4	FORVAR ENTRY WITH RLAST	F2107720
07027	ŏ	76100	0	00000		NOP			F2107730
07030	Õ	02000	Ď	07034		TRA	RH70	TRA: IN RANGE.	F2107740
07031	ě	02000	Ð	07047		TRA	RH80	TRA, NOT IN RANGE.	F2107750
07032	3	00000	4	07021	RH60	TXH	RH40+4	IF NO ENTRIES GREATER	F2107760
07033	õ	02000	ò	07053		TRA	RH95	THAN RFIRST. EXIT.	F2107770
07034	ŏ	50000	ĭ	02540	RH70	CLA	DOTAGZ+1.1	IN RANGE, COMPARE SYMBOLS.	F2107780
07035	Õ	40200	-	05475		SUB	4VARZ+1•4	IF EQUAL, PUT BIT IN	F2107790
07035	-0	10000	n	07042		TNZ	RH72	DOTAG ENTRY.	F2107800
07037	0	50000	ñ	05511		CLA	BITONE		F2107810
070/0	-0	60200	1	02544		ORS	DOTAG7+5+1	•	F2107820
07040	-0	00200	•	07051		TXH	RH85 • 2 • 1		F2107830
07042	. 1	77776	4	07043	RH72	TXI	RH75 • 4 • - 2	INDEX FORVAR AND GO BACK.	F2107840
07042	2	00000	4	07025	RH75	TYH	RH50.4	IF POSSIBLE. OTHERWISE.	F2107850
07044	. 2	00000	2	07051	11112	TXH	RH85 • 2 • 1	TEST LEVEL. IF LEVEL IS	F2107860
07044	0	76000	n	00141		PSF	97	ONE . ARRANGE TO EXIT WHEN	F2107870
07045	0	02000	n	07051		TPA	RH85	NEXT LEVEL ONE ENCOUNTERED.	F2107880
07047	3	02000	2	07051	RH80	TXH	RH85 • 2 • 1	TEST FOR EMPTY DOTAG. NOT EMPTY. EMPTY. RESTORE SENSE LIGHT AND EXIT. FORVAR TEST INITIALIZING. DOTAG TEST INITIALIZING MAX WORDS IN FORVAL IN NEXT NEST INDEX. TURN LIGHT 97 OFF. PUT MAX WDS IN DOTAG IN XRA. OBTAIN FIRST DOTAG WORD. SEPARATE ALPHA AND BETA, STORE IN RFIRST AND RLAST. TRA IF LEVEL GREATER THAN ONE. LEVEL IS ONE, TEST WHETHER, ON LAST LEVEL ONE, FORVAR EXHAUSTED. IF SO, EXIT. OTHERWISE, ADJUST FORVAR INDEX TO SKIP LAST NEST AREA. PUT FORVAR INDEX IN XRC. BEGIN SEARCH FOR FIRST FORVAR ENTRY IN RANGE. ERROR. GO TO DIAGNOSTIC. SAVE INDEX AT THIS POINT FOR NEXT DO, AND COMPARE FORVAR ENTRY WITH RLAST TRA, IN RANGE. IF NO ENTRIES GREATER THAN RFIRST, EXIT. IN RANGE, COMPARE SYMBOLS. IF EQUAL, PUT BIT IN DOTAG ENTRY. INDEX FORVAR AND GO BACK, IF POSSIBLE. OTHERWISE, TEST LEVEL. IF LEVEL IS ONE, ARRANGE TO EXIT WHEN NEXT LEVEL ONE ENCOUNTERED. NOT IN RANGE, TEST LEVEL. SET NEXT NEST INDEX IF L IS ONE. INDEX IN DOTAG AND GO	F2107890
07050	-0	63400	4	07054		SXD	RHNNX • 4	SET NEXT NEST INDEX IF L IS ONE.	F2107900
07050	-0	77747	1	07052	DH85	TYI	RH90.19	INDEX IN DOTAG AND GO	F2107910
₿102I	1	11101	•	01002	KHUJ	1 \ 1			

D

D

D	07052	3	00000	1	07001	RH90	TXH	RH10+1		BACK IF POSSIBLE.	F2107920
	07053	0	02000	0	07157	RH95	TRA	LB00		EXII	F2107930
A	07054	٥	00000	٥	00000	RHNNX	HTR			NEXT NGST INDEX	F2107940
A	07055	0	00000	0	00000	RHCNX	HTR			CURRENT NEST INDEX	F2107950
A	07056	0	00000	0	00000	RFIRST	HTR			ALPHA ADDRESS	F2107960
A	07057	0	00000	0	00000	RLAST	HTR			BETA ADDRESS	F2107970
								TAPE READING	ROUTINE		F2107980
	07060	0	62100	0	07101	RTAPE	STA	RT40		INITIALIZE TABLE ADDRESS	F210/990
	07061	0	60100	0	07126		STO	RT92			F2108000
	07062	-0	63400	4	07124		SXD	RT80,4		SAVEXRC TSX SET	F2108010
	07063	-0	75400	2	00000		PXD	0,2		SAVE XRB,	F2108020
	07064	. 0	77100	0	00022		ARS	18		TABLE NR. IN ADDRESS.	F2108030
	07065	O	60100	0	07125		STO	RT90			F2108040
	07066	-0	53400	4	07136		LXD	RTD18,4	INITIALIZE	ERROR COUNTER.	F2108055
	07067	-0	63400	4	07121		SXD	RT73,4			F2108060
,	07070	0	76200	0	00222	RT10	RDS	TTAPE		SELECT TAPE	F2108070
	07071	-0	53400	1	07126		LXD	RT92.1		PUT MAX NR WORDS IN XRA	F2108080
	07072	-0	53400	4	05476		LXD	L(2),4		PUT TWO IN XRC	F2108090
	07073	0	70000	4	07131	RT20	CPY	RT95+2+4		COPY FIRST TWO WORDS.	F2108100
	07074	0	02000	0	07077		TRA	RT30		INTO E.S.	F2108110
	07075	0	07400	4	00004		TSX	DIAG +4 EOF +		ERROR. GO TO DIAGNOSTIC.	F2108125
	07076	0	07400	4.	00004		TSX	DIAG 4 EOR •		ERROR. GO TO DIAGNOSTIC.	F2108135
	07077	2	00001	4	07073	RT30	TIX	RT20,4,1			F2108140
	07100	-3	00001	2	07131		TXL	RTD00,2,1			F2108150
	07101	0	70000	1	00000	RT40	CPY	0.1		COPY TABLE	F2108160
	07102	1	77777	1	07101		TXI	RT40+1+-1		COUNT NR. OF WORDS.	F2108170
	07103	0	07400	4	00004		TSX	DIAG 4 EOF .		ERROR. GO TO DIAGNOSTIC.	F2108185
	07104	0	76600	0	00333	RT45	WRS	219		FROOD PECT	F2108190
	07105	-0	76000	0	00012		RTI			ERRUR (ES)	F2100200
	07106	0	02000	0	07115		TRA	RT70		ERROR IRA	F2108210
	07107	0	50000	0	07125		CLA	RT90		NO ERROR;	F2108220
	07110	0	40200	0	07127		SUB	R195		IEST TABLE MES	F2100230
	07111	0	10000	0	07113		IZE	KI60	TAD! E 105NT	NO ERROR	F2100240
	07112	0	07400	4	00004		ISX	DIAG 4 WKUNG	TABLE IDENT	TABLE CORRECT.	F2100233
	07113	-0	53400	4	07124	RT60	LXD	R18094		PETUDA	F2100200
	07114	0	02000	4	00001		IRA	194		KE JURN •	F2100210
	07115	-0	53400	4	07121	RT70	LXD	R1/394		EDDOD. BACKEDACE TARE	F2100200
	07116	0	76400	0	00222		851	DIAPE		ERROR DACKSPACE TAPE	F2100270
	07117	-2	00001	4	07122		INX	K1759491		COUNT DOWN EPPOP COUNTED.	F2100300
	07120	-0	63400	4	07121		SXD	K17394		COURT DOWN ERROR COUNTERS	£2100310
D	07121	-3	00000	0	07070	K173	IXL	KIIU•U	16 61V6 641	LUDEC. DUT	E2100320
	07122	0	56000	0	07125	K1/5	LDU	RIYU	IL LIAC LAT	EDDAD GO TO DIAGNOSTIC.	F2100332
	07123	Õ	07400	4	00004		ISX	DIAG 4 TABLE	NK. IN MU.	TEN INDEX STOPAGE	F2100345
A	07124	0	00000	0	00000	RIBO	HIK			TABLE ND STORAGE. C.S.	F2108350
A	07125	0	00000	0	00000	R190	HIK			ADDECC HODD STOPAGE	F2108300
A	07126	0	00000	0	00000	R192	HIK			TADLE NO. WO ONE OF TABLE.	F2108380
A	07127	0	00000	0	00000	KIYO	HIK			NO. OF WAS IN DEC.	F2108300
A	07130	0	00000	0	00000	KIY6	HIK	0.0		THIS DOUTING	F2100370
	07131	-0	75400	0	00000	RTDOO	PXD	0.7010.4		INTO KUUTINE	E2108400
	07132	-0	53400	4	07136	RTD10	LXD	K1U1894		READS IN UNE	F2100410
	07133	0	70000	1	02537	RTD15	CPY	DUTAGZ 1		BACK, IF POSSIBLE. EXIT NEXT NGST INDEX CURRENT NEST INDEX ALPHA ADDRESS BETA ADDRESS INITIALIZE TABLE ADDRESS SAVEXC, TSX SET SAVE XRB, TABLE NR. IN ADDRESS. ERROR COUNTER. SELECT TAPE PUT MAX NR WORDS IN XRA PUT TWO IN XRC COPY FIRST TWO WORDS. INTO E.S. ERROR. GO TO DIAGNOSTIC. ERROR. GO TO DIAGNOSTIC. COPY TABLE COUNT NR. OF WORDS. ERROR. GO TO DIAGNOSTIC. ERROR TEST ERROR, TRA NO ERROR, TEST TABLE NR. NO ERROR NR. ERROR. GO TO DIAGNOSTIC. TABLE CORRECT. RETURN. ERROR. GO TO DIAGNOSTIC. TABLE CORRECT. RETURN. ERROR. GO TO DIAGNOSTIC. TSX INDEX STORAGE TABLE NR. WO ONE OF TABLE. NR. OF WDS IN DEC. THIS ROUTINE READS IN ONE ENTRY FROM TDO, AFTER WHICH ERROR. GO TO DIAGNOSTIC. ARE STORED BEFORE	F2108420
	07134	1	77777	1	07137		IXI	R1020+1+-1	CDO HODDS	(DU) AFIEK WHICH	F2108430
	07135	0	07400	4	00004		ISX	DIAG 4 FOUR Z	ERU WORDS	ERROR DU 10 DIAGNOSTICA	E2100442
	07136	-3	00005	0	07104	RIDIE	IXL	K145 90 95		AKE STUKED DEFUKE	F 2 1 U 0 4 3 U

07137	2	00001	4	07133	RTD20	TIX	RTD15+4+1	READING IN THE NEXT ENTRY. STORE ZERO INDEX AND REPEAT. WHEN DOTAG ENTRY IS COMPLETE, TRA TO RTD10 ADDRESS PART CONTAINS ADDRESS OF LAST WORD IN TABLE PLUS ONE. DEC CONTAINS MAX NR OF WRDS. E BIT. TEST FOR EMPTY DOTAG OFF, NOT EMPTY ON, EMPTY, RESET LIGHT AND EXIT OBTAIN NEXT UNUSED INDEX TRA TO ADJUST FOR LAST DO. OBTAIN I1 WORD. TEST SIGN, TRA IF NEG. TEST FOR TRA IN IMMED. RANGE. IF NONE, TRA. SAVE XRA PUT LEVEL IN XRB OR IN MSK EXIT IF LEVEL ONE. FIND NEXT BACK SUBNEST DO. SAVE NEW LEVEL IN XRB. TEST SIGN OF WORD T1. IF PLUS GO TO PUT IN MSK. IF NOT, FIND NEXT DO IN MAIN PASS. EBOO FOLLOWS REWIND DOTAG TAPE TEST FOR EMPTY DOTAG OFF, NOT EMPTY ON, EMPTY, RESTORE AND TRA. INITIALIZE TEST INSTR. AND XRA WRITE DOTAG	F2108460
07140	1	00003	4	07141	RTD23	TXI	RTD25,4,3	CTODE ZERO	F2108480
07141	0	60100	1	02537	RTD25	510	DOTAGE	STORE ZERO	F2108490
07142	1	77777	1	07143		IXI	R1D30919-1	INDEA	F2108500
07143	0	60100	1	02537	RTD30	STO	DOTAGZ + 1	AND REPEATS	F2108510
07144	1	77777	1	07145		TXI	RTD35,1,-1	WHEN DUTAG	F2108520
07145	0	60100	1	02537	RTD35	STO	DOTAGZ 1	ENIRY 15	F2108520
07146	1	77777	1	07147		TXI	RTD40,1,-1	COMPLETE	F2108540
07147	0	60100	1	02537	RTD40	STO	DOTAGZ • 1	IKA	F2108550
07150	1	77777	1	07132		TXI	RTD10+1+-1	IO RIDIO	F2108560
07151	0	02506	0	02537	DOAD	HTR	DOTAGZ • 0 • 1350	ADDRESS PART CONTAINS	F2108570
07152	0	01750	0	04510	4VALAD	HTR	4VALZ+0+1000	TABLE BLUE ONE	F2108580
07153	0	01130	0	03670	TIFAD	HTR	T1FZ-0-600	DEC CONTAINS MAY NO OF	F2108590
07154	0	00372	0	04263	TRADAD	HTR	TRADZ 9 0 9 2 5 0	DEC CONTAINS MAX MR OF	F2108600
07155	0	02734	0	05474	4VARAD	HTR	4VARZ+0+1500	₩KU3●	F2108610
07156	0	02734	0	03670	4TAGAD	HTR	FORTZ + O + 1500	r 517.	F2108620
							TRANSFER IN EXTENDED RANG	TEST FOR EMPTY DOTAG	F2108630
07157	-0	76000	0	00143	LB00	MSE	99	DEE NOT EMPTY	F2108640
07160	0	02000	0	07163		TRA	LB02	OFF S NOT EMPTH	F2108650
07161	0	76000	0	00143		PSE	99	UNS EMPITS RESEL LIGHT	F2108660
07162	. 0	02000	0	07211		TRA	EB00	ORTAIN NEVT UNUSED INDEY	F2108670
07163	-0	53400	1	00030	LB02	LXD	DOTAG-1+1	TO AD HIST FOR LAST DO	F2108680
07164	-3	00000	0	07207	LB05	TXL	LB60•0	ORTAIN TI WORD.	F2108690
07165	0	50000	1	02545	LB10	CLA	DUIAGZ+6 • I	TECT SIGN. TPA IF NEG.	F2108700
07166	-0	12000	0	07207		IMI	LB60	TEST FOR TRA IN IMMED. RANGE.	F2108710
07167	-0	32000	0	05511		ANA	BITONE	TE MONE TOA	F2108720
07170	0	10000	0	07207		125	LB60 .	CAVE YPA	F2108730
07171	-0	63400	1	07164		SXU	LBU291	DUT I EVEL	F2108740
07172	0	50000	1	02544		CLA	001802+391	IN YPR	F2108750
07173	-0	73400	2	00000		PUX	U\$Z	OP IN	F2108760
07174	-0	50000	0	05510	LB20	CAL	DOTAC7+6+1	MCK.	F2108770
07175	-0	60200	.1	02545		UKS	1050-2-1	EXIT IF LEVEL ONE.	F2108780
07176	-3	00001	2	07206		IXL	LD20-1-0	EIND NEXT BACK	F2108790
07177	1	00011	1	07200	LB25	IXI	LD3U9199	SUBNEST DO.	F2108800
07200	0	50000	ī	02544	LB30	CLA	10440	SOBILES! DOV	F2108810
07201	0	62200	0	07202		210	LD4V		F2108820
07202	-3	00000	2	07177	LB40	IXL	0.3	SAVE NEW LEVEL IN XRB.	F2108830
07203	-0	73400	2	00000		PUA	DOTAG746 - 1	TEST SIGN OF WORD TIA	F2108840
07204	0.	50000	1	02545		TDI	1020	IF PLUS GO TO PUT IN MSK.	F2108850
07205	0	12000	Ö	07174		IPL	LD20	IF NOT. FIND NEXT DO	F2108860
07206	-0	53400	1	07164	LB30	TVI	L D 70 - 1 - 9.	IN MAIN PASS.	F2108870
07207	1	00011	1	0/210	LBGU	IXI	LD/U9.197	FROM FOLLOWS	F2108880
07210	-3	02506	Ţ	0/165	LB/0	IXL	END OF BLOCK POUTINE	2000 10220110	F2108890
			_		5000	DEM	147	REWIND DOTAG TAPE	F2108900
07211	0	77200	ŏ	00223	EB00	MCF	00	TEST FOR EMPTY DOTAG	F2108910
07212	-0	16000	ŏ	07216		TDA	FR10	OFF. NOT EMPTY	F2108920
07213	Û	02000	ŏ	01210		DCF	00	ON. EMPTY. RESTORE AND TRA.	F2108930
07214	Ü	10000	٥	07722		TDA	FR50		F2108940
07215	. 0	U2000	1	00030	ERIO	IXD	DOTAG-1-1	INITIALIZE TEST INSTR.	F2108950
0/216	-0	22400	,	07220	FBIO	CXD	FR40.1	AND	F2108960
07217	-0	53400	,	01230		1 XU	1 / 1350 • 1	XRA	F2108970
0/220	-0	53400	1	05500	EB20	FYD	1 (9) 4	WRITE	F2108980
0/221	-0	50000	+	02544	EDZU	CLA	DOTAGZ+5+1	DOTAG	F2108990
01222	Ü	20000	1	UZ244		CLN	PO11/1041278		

			* 1	
07223 -0 73400 2 00	0000 F	PDX 0+2	ON TAPE ONE NEST PER RECORD WRITE END OF FILE READ IN FORTAG. SET SENSE LIGHT 97 ON IF FORTAG EMPTY. OFF IF FORTAG NOT EMPTY. MOVE TTAPE PAST END OF FILE MARK. EOF NOT BE EOR HERE. ES IS TRALEY TALBE EMPTY	F2109000
87224 3 00001 2 0	7226 1	TXH E830+2+1	TAPE .	F2109010
07225 0 76600 0 00	0223 V	NRS 147	ONE	F2109020
87226 0 70000 1 0	2537 EB30 (CPY DOTAGZ.1	NEST	F2109030
07227 1 77777 1 0	7230	TXI EB40+1+-1	PER	F2109040
07230 -3 00000 1 0	7233 EB40 1	TXL E850 .1	RECORD	F2109050
07231 2 00001 4 0	7226	TIX EB30,4,1		F2109060
07232 0 02000 0 0	7221	TRA EB20		F2109070
07233 0 77000 0 0	0223 EB50 V	WEF 147	WRITE END OF FILE	F2109080
07234 -0 53400 2 0	5500 EB60 L	XD L(4) •2	READ	F2109090
07235 0 50000 0 0	7156	CLA 4TAGAD	IN	F2109100
07236 0 07400 4 0	7060	TSX RTAPE . 4	FORTAG.	F2109110
07237 -0 63400 1 00	0733	SXD FORTAG-1-1	SET SENSE LIGHT 97	F2109120
07240 -0 76000 0 0	0141 N	MSE 97	ON IF FORTAG	F2109130
07241 0 76100 0 0	0000	NOP	EMPTY. OFF IF	F2109140
A7242 -3 02733 1 0	7244 1	TXL EB70+1+1499	FORTAG	F2109150
07243 0 76000 0 00	0141 F	PSE 97	NOT EMPTY.	F2109160
07244 0 76200 0 0	0222 EB70 F	RDS TTAPE	MOVE TTAPE PAST	F2109170
07245 0 70000 0 0	7251	CPY EB80	END OF FILE MARK.	F2109180
07246 0 02000 0 0	7244 1	TRA EB70		F2109190
07247 0 02000 0 0	7252	TRA EB90	EOF	F2109200
07250 0 07400 4 00	0004	TSX DIAG.4 SHOULD	NOT BE EOR HERE. ERROR. GO TO DIAGNOSTIC.	F2109215
07251 0 00000 0 00	0000 FB80 H	ATR	ES	F2109220
07252 ~0 76000 0 0	0142 FB90 N	NSE 98	IS TRALEY TALBE EMPTY	F2109230
07252 0 02000 0 0	7260 1	TRA FR95	, , , , , , , , , , , , , , , , , , , ,	F2109240
07254 0 76600 0 0	1200 I	WRS TLTAPE	ON. EMPTY.	F2109250
07255 0 70000 0 0	5474	CPY 1 (0)	;	F2109260
07254 0 70000 0 0	5474	CPY L(0)		F2109270
07257 0 76000 0 0	0142 F	PSE 98		F2109280
07250 0 77000 0 00	0224 EB95 V	NEF TLTAPE	TRALEV TAPE	F2109290
A7261 0 76200 0 00	0221 E	RDS 145	SKIP OVER DIAGNOSTIC RECORD ON SYSTEM TAPE.	F2109295
07262 0 02000 0 0	0004 1	TRA ONETCS	GO TO ONE TO CS (MONITOR).	F2109296
07262 =0 63400 2 0	7301 ERLIST S	SXD ERIR2.2	SAVE X R B	F2109311
07264 -0 53400 2 0	7302	XD ERNBR • 2	GET ERROR NUMBER	F2109321
07265 0 50000 4 0	2537	LA DOTAGZ.4	SAVE ALPHA DO BETA	F2109331
07266 0 60100 2 7	7777 9	STO LIST•2	IN LIST	F2109341
07267 0 50000 4 0	2540	LA DOTAGZ+1+4	AND SYMBOL	F2109351
07270 0 60100 2 7	7776	STO LIST-1.2		F2109361
07271 0 50000 1 0	2537	CLA DOTAGZ • 1	SAVE OTHER ALPHA DO BETA	F2109371
07272 0 60100 2 7	7775	STO LIST-2.2		F2109381
A7273 0 50000 1 0	2540	LA DOTAGZ+1+1	AND SYMBOL	F2109391
07274 0 60100 2 7	7774	STO LIST-3.2		F2102401
07275 1 00004 2 0	7276	TXI ERNXT.2.4		F2109411
07276 -0 63400 2 0	7302 ERNXT S	SXD ERNBR•2		F2109421
07277 =0 53400 2 0	7301	XD FRIR2.2	· · · · · · · · · · · · · · · · · · ·	F2109431
07200 0 02000 0 0	5625 1	TRA MR60		F2109441
A7201 0 00000 0 0	nong FRIR2			F2109451
01301 0 00000 0 00	0000 FRNRR			F2109461
07302 -0 43400 3 0	7301 FRRETA S	SYD FRIR2.2	SAVE ALPHA DO BETA	F2109471
07304 -0 53400 2 0	7302 ENDEIN 3	YD FRNRR 2	WHERE ALPHA	F2109481
07304 -0 33400 2 0	7777	ST7 ISTa2	IS GREATER THAN	F2109491
07305 0 60000 2 7	2527	TIA DOTAGZAI	EOF NOT BE EOR HERE. ERROR. GO TO DIAGNOSTIC. ES IS TRALEV TALBE EMPTY ON. EMPTY. TRALEV TAPE SKIP OVER DIAGNOSTIC RECORD ON SYSTEM TAPE. GO TO ONE TO CS (MONITOR). SAVE X R B GET ERROR NUMBER SAVE ALPHA DO BETA IN LIST AND SYMBOL SAVE OTHER ALPHA DO BETA AND SYMBOL SAVE ALPHA DO BETA AND SYMBOL SAVE ALPHA DO BETA AND SYMBOL	F2109501
01300 0 30000 I 0	7776	STO 1 (ST=1.2	III DEIN	F2109511
07310 0 50000 1 0	2540	LA DOTAGZ+1+1		F2109521
01210 0 20000 1 0	£2 70	LA DUINOLTIFI		

07311 0 60100 2 07312 1 00003 2	07313	STO LIST-2,2 TXI ERNX,2,3			F2109531 F2109541
07313 -0 63400 2		SXD ERNBR • 2			F2109551
07314 -0 53400 2		LXD ERIR2•2			F2109561
07315 0 02000 0	05570	TRA MR15			F2109571
Q7316 -0 53400 2	07302 ERTST 1	LXD ERNBR•2			F2109581
07317 -3 00000 2	05662	TXL FLOW.2.0			F2109591
07320 0 07400 4	00004	TSX 4•4			F2109601
	77777 LIST S	SYN 32767		•	F2109611
	00004 ONETCS 6	EQU 4			F2109710
	00004 DIAG E	EQU 4		•	F2109711
	05510 LMSK S	SYN L(MZ)			F2109712
	00222 TTAPE E	EQU 146			F2109722
•	00224 TLTAPE E	EQU 148			F2109732
	00000	END	END OF BLOCK 1		F2109742

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F2200520
                 03732 DELTA
                                                 BIT POS 15,16,17,EQ1 FOR CORRES DUPE RELCONS
                                                                                                 F2200530
                 03733 RCDUP
                                                 BIT POS 15,16,17 EQ 1 FOR CORRES DUPE DOSUBS
                                                                                                 F2200540
                 03734 DUPES
                               BSS 1
                                                                                                 F2200550
                 03735 RSYM1
                               BSS 1
                                                                                                 F2200560
                              BSS 1
                 03736 RSYM2
                                                 BIT 11 IF LEFT TYPE 1 CARRY, 12 LEFT TYPE 2,
                                                                                                 F2200570
                 03737 CARWRD BSS 1
                                                                                                 F2200571
                                                 13 CENTER TYPE 1, 14 CENTER TYPE 2.
                                                                                                 F2200572
                                                 S SET NEG IF COUNTER AND TEST FOUND
                                                                                                 F2200580
                 03740 TL1
                                                                                                 F2200590
                               BSS 1
                 03741 TL2
                                                                                                 F2200600
                               BSS 1
                 03742 A
                                                                                                 F2200610
                               BSS 1
                 03743 B
                                                                                                 F2200620
                 03744 NEXTA
                               BSS 1
                                                                                                 F2200630
                 03745 LASTB
                               BSS 1
                                                                                                 F2200640
                 03746 REBITS BSS 1
                                                                                                 F2200650
                 03747 TRABIT BSS 1
                                              5+3+1 IF LL SUBSCR IS X1+X2+X3 RESPECT. (ID)
                                                                                                 F2200660
                 03750 LOWPOS BSS 1.
                                                                                                 F2200670
      0 00000 0 00000 L(0)
                                   0,0,0
03751
                                                                                                 F2200680
       0 00001 0 00000 L(1)
                                   0.0.1
                                                                                                 F2200690
       0 00002 0 00000 L(2)
                                   0,0,2
03753
                                                                                                 F2200700
       0 00003 0 00000 L(3)
                                   0,0,3
03754
                                                                                                 F2200710
                                   0,0,4
03755
      0 00004 0 00000 L(4)
                                                                                                 F2200720
                                   0,0,5
      0 00005 0 00000 L(5)
                                                                                                 F2200730
                                   0,0,6
      0 00006 0 00000 L(6)
03757
                                                                                                 F2200740
                                   0,0,20
03760
      0 00024 0 00000 L(20)
                                                                                                 F2200750
      0 00044 0 00000 L(36)
                                   0,0,36
03761
                                                                                                 F2200760
                                   0,0,60
03762
       0 00074 0 00000 L(60)
                                                                                                 F2200770
                                   0.0.450
       0 00702 0 00000 L(450)
03763
                                                                                                 F2200780
                                   0,0,1500
      0 02734 0 00000 L(1500
03764
                                                                                                 F2200790
      0 00000 0 00001 L(1)A
                                   1
03765
                                                                                                 F2200800
03766 0 00000 0 00002 L(2)A
                                                                                                 F2200810
03767 0 00000 0 00004 L(4)A
                                                                                                 F2200820
03770 -0 00000 0 00000 L(MZ)
                              MZE
                                                                                                 F2200830
                       350NES OCT 37777777777
03771 +37777777777
                                                                                                 F2200840
                       DECMSK OCT 77777000000
03772 +077777000000
                                                                                                 F2200850
                       ADDMSK OCT 77777
03773 +000000077777
                                                 BIT 11
                       CR1
                               OCT 100000000
03774 +000100000000
                                                                                                 F2200870
                                                 BIT 12
03775 +000040000000
                       CR2
                               OCT 40000000
                                                 BITS 19:20 (CARRY BITS OF DOTAG: WD 6)
                                                                                                 F2200880
                       CARMSK OCT 300000
03776 +000000300000
                                                                                                 F2200890
03777 +000000004000
                       FRSTAG OCT 4000
                                                                                                 F2200900
                       BITONE OCT 20000000000
04000 +200000000000
                                                                                                 F2200910
04001 +100000000000
                       BITTWO OCT 10000000000
                                                                                                 F2200920
                              OCT -200000000000 S AND 1 BIT
                       2BITS
04002 -200000000000
                                                                                                 F2200930
04003 +000000400000
                       BIT18
                              OCT 400000
                              OCT 200000
                                                                                                 F2200940
04004 +000000200000
                       BIT19
                                                                                                 F2200950
                              OCT 100000
04005 +000000100000
                       BIT20
                                                DEC CONTAINS (FROM HERE TO NAMXX BELOW.
                                                                                                 F2200960
                                  100
                                              IX VALUE FOR NEXT (DEC INIT SET TO ADD)
     0 00000 0 00144 ADTXX
04006
                                                                                                 F2200970
     0 00000 0 00454 RESXX
                                  300
04007
                                                                                                 F2200980
                                  80
                                               TABLE ENTRY.
      0 00000 0 00120 TAGXX
04010
                                                                                                 F2200990
      0 00000 0 00144 NAMXX
                                  100
                                                             REWIND DOTAG TAPE
                                                                                                 F2201000
04012 0 77200 0 00223 BEGIN
                              REW DOTAPE
                              LXD L(5) 1
                                                                                                 F2201010
                                                             INITIALIZE
04013 -0 53400 1 03756
                                                             DRUM PROGRAM
                                                                                                 F2201020
04014 0 50000 1 05106 BEG10 CLA LADDIN+5,1
                                                                                                 F2201030
                                                             ADDRESSES
                              ANA ADDMSK
04015 -0 32000 0 03773
```

									F22010/0
04016		60100				STO	LADDS+5+1	TURN LIGHT OFF TEST FOR EMPTY FORVAL OFF, NOT EMPTY ON, EMPTY TEST FOR EMPTY DOTAG. SAVE TABLE INFO IN END PROG. IF DOTAG EMPTY, GO TO END. INITIALIZE FORTAG TEST	F2201040 F2201050
04017		00001				11X	BEG10,1,1		F2201060
04020		50000				CLA	F(0)	TURN LIGHT OFF TEST FOR EMPTY FORVAL OFF DOT EMPTY ON EMPTY TEST FOR EMPTY DOTAG.	F2201070
04021		60100				510	DOREC	TUDA	F2201080
		76000				KII		I ICHT OFF	F2201090
04023		76100				NOP		LIGHT OFF	F2201090
		53400				LXD	L(0)+6	TEST FOR EMPTT	
		76000				MSE	100	FORVAL	F2201110
04026	-0	53400	4	03752		LXD	L(1),4	OFF , NOT EMPTY	F2201120
04027	-0	63400	4	04112		SXD	END80,4	ON, EMPTY	F2201130
		76000				MSE	99	TEST FOR	F2201140
04031	-0	53400	2	03752		LXD	L(1) •2	EMPTY DOTAG.	F2201150
		63400				SXD	END85,2	SAVE TABLE INFO IN END PROG. IF DOTAG EMPTY, GO TO END.	F2201160
04033	-3	00000	2	04043		TXL	END . 2 . 0	IF DOTAG EMPTY, GO TO END.	F2201170
04034	-0	53400	1	.00733		LXD	FORTAG-1:1	INITIALIZE	F2201180
04035	-0	63400	1	05426		\$XD	TINF30.1	FORTAG	F2201190
		63400						TEST	F2201200
04037	-0	63400	1	04516			TAG90,1	INSTRUCTIONS.	F2201210
04040	0	50000	0	03777	PAT01		FRSTAG	INITIALIZE FORTAG TEST INSTRUCTIONS. INITIALIZE NEW TAG NAME BASE.	F2201220
04041	0	60100	0	03673		STO	NEWTAG		F2201230
04042	0	02000	0	04116		TRA	NEST		F2201240
04043		77000			END	WEF	ATAPE	WEF ON TAGTAG TAPE	F2201250
		76600	0	00303		WRS	195	MAKE END OF DRUMTAG TABLE ENTRY.	F2201260
		46000				LDA	LADDS+4	WEF ON TAGTAG TAPE MAKE END OF DRUMTAG TABLE ENTRY.	F2201270
04046		70000				CPY	350NES		F2201280
		70000				CPY	350NES		F2201290
		53400				LXD	L(5) +1		F2201300
04051		76600			END10	WRS	350NES L(5) +1 219 ADRUM LADD IN+5 +1 L(2) A END90	DELAY. WRITE ALL DRUM TABLE WORD COUNTS IN FIRST TWO WORDS PRECEDING	F2201310
04052		76600				WRS	ADRUM	WRITE	F2201320
	0	50000	1	05106		CLA	LADDIN+5 1	ALL	F2201330
04054		40200				SUB	L(2)A	DRUM	F2201340
04055	Ō	62100	0	04114		STA	END90	TABLE	F2201350
04056		50000				CLA	LADDIN+5 +1	WORD	F2201360
	-0	32000	0	03773		ANA	ADDMSK	COUNTS	F2201370
		40200				SUB	LADDS+5.1	IN	F2201380
04061		76000				SSP		FIRST	F2201390
04062	_	60100				STO	END95	TWO	F2201400
		46000				LDA	END90	WORDS	F2201410
04064		70000				CPY	END95		F2201420
04065		70000				CPY	END95	EACH TABLE . (TSXCOM, TRASTO, NAMKEY,	F2201430
04066	-	00001				TIX	END10,1,1	CHATAG, DRMTAG)	F2201440
04067		76000				PSE	96	RESTORE SENSE LIGHTS SL 100 ON, FORVAL EMPTY SL 99 ON, DOTAG EMPTY.	F2201450
		53400				LXD	END80.1	SL 100 ON, FORVAL EMPTY	F2201460
04071		00000				TXH	END20+1+0	SL 99 ON, DOTAG EMPTY.	F2201470
04072		76000					100		F2201480
		53400			END20		END85 . 1		F2201490
04074		00000					END30+1+0		F2201500
04075	_	76000				PSE			F2201510
04076		77000			END30		TAPE2	WRITE EOF AFTER DONEST RECORDS.	F2201520
04077		76600					TAPE2		F2201530
04100	_	70000					DOREC	MAKE AN EXTRA FILE WITH	F2201540
04100	_	70000	_				DOREC	DONEST RECORD COUNT.	F2201550
04101	-	77000					TAPE2		F2201560
•	-	50000					LADDS+1	TRASTO CARRYOVER TO BLOCK 3.	F2201570
04103	U	50000	J	45015		CLA			

	04172 0 50000 0 03752	CLA L(1)	SET ADDED TAG SWITCH	F2202150
	04173 0 60100 0 03672	STO ATSW	AND GO TO DRMENT TO	F2202160
	04174 0 07400 4 05206	TSX DRMENT+4	PROCESS ADDED TAGS	F2202170
	04175 -0 53400 1 04011	LXD NAMXX+1	TA DOWN TABLE NAME	F2202160
	04176 -0 63400 1 04212	SXD NEST84+1	TO DRUM TABLE NAME	F2202190
	04176 -0 63400 1 04212	SXD NEST84.1	TO DRUM TABLE NAME	F2202190
	04177 0 53400 1 04011	LXA NAMXX 1	ALL ENIKIES	F2202200
D	04200 -3 00000 0 04212 NEST81	TXL NESI84.0	IN CORE TABLE NAME	F2202210
	04201 0 50000 1 07301 NEST82	CLA NAMZ 1	•	F2202220
	04202 0 60100 0 05063	SIO EI		F2202230
	04203 0 50000 1 07302	CLA NAMZ+191		F2202240
	04204 0 60100 0 05064	SIU EZ		F2202230
	04205 0 50000 0 05071	CLA NAMACI		F2202270
	04206 -0 63400 1 04200	TCY ITSTAG		F2202280
	04207 0 07400 4 05025	IN MESTRIAL		F2202290
	04210 -0 53400 1 04200	TVI NESTRA 1 am2		F2202300
_	04211 1 ////6 1 04212	TVU NESTROAT		F2202310
D	04212 3 00000 1 04201 NESTON	IND ADTYXA1	TRANSFFR	F2202320
	04213 -0 53400 1 04000	SYD NESTARAI	TO DRUM TABLE NAME	F2202330
	04214 -0 63400 1 04234	I YA ADTXX 1	ALL ENTRIESP	F2202340
	04215 0 53400 1 04000 04216 -3 00000 0 04234 NEST85	TXI NESTRE-0	IN CORE TABLE ADTAG	F2202350
D	04216 -5 00000 0 04254 NESTRE	CLA ADTAGZ+1+1	EXCEPT	F2202360
	04217 0 30000 1 07130 NESTOO	TMI NEST87	RESET	F2202370
	04220 -0 12000 0 04255	STO F2	ENTRIES	F2202380
	04221 0 60100 0 03004	CLA ADTAGZ • 1		F2202390
	04222 0 50000 1 01155 04222 0 60100 0 05063	STO F1		F2202400
	04223 0 00100 0 00000	PDX 0.2		F2202410
	04225 0 50000 2 00733	CLA DOTAGZ +2		F2202420
	04225 0 50000 2 051053	STD E1		F2202430
	04227 -0 63400 1 04216	SXD NEST85+1		F2202440
	04230 0 50000 0 05071	CLA NAMKEY		F2202450
	04231 0 07400 4 05025	TSX LIST .4	·	F2202460
	04232 -0 53400 1 04216	LXD NEST85.1	•	F2202470
	04233 1 77776 1 04234 NEST87	TXI NEST88 +1 +-2		F2202480
D	04234 3 00000 1 04217 NEST88	TXH NEST86.1		F2202490
-	04235 -0 53400 1 00030 NST100	LXD DOTAG-1+1		F2202500
	04236 0 02000 0 04247	TRA NST120		F2202510
	04237 0 50000 1 00743 NST110	CLA DOTAGZ+8,1	DOES BIT 20 WD 9 OF THIS DOTAG	F2202520
•	04240 -0 32000 0 04005	ANA BBIT	EQ 1.	F2202530
	04241 0 10000 0 04247	TZE NST120	AND	F2202540
	04242 0 50000 1 00732	CLA DOTAGZ-1:1	DOES BIT 18 WD 9 OF PRIOR DOTAG	F2202550
	04243 -0 32000 0 04003	ANA ABIT	EQ 1.	F2202560
	04244 -0 10000 0 04247	TNZ NST120		F2202570
	04245 0 50000 0 03773	CLA ADDMSK	YES. ERASE DEC WD 9	F2202580
	04246 0 32000 1 00743	ANS DOTAGZ+8+1	OF PRIOR DOTAG.	F2202590
	04247 1 00011 1 04250 NST120	TX: NST130.1.9		F2202610
	04250 -3 00671 1 04237 NST130	TXL NST110,1,441		F 2202620
	04251 0 50000 0 03670	CLA DOREC	WRITE	F2202630
	04252 0 40000 0 03752	ADD L(1)	DOTAG	F2202640
	04253 0 60100 0 03670	STO DOREC	SET ADDED TAG SWITCH AND GO TO DRMENT TO PROCESS ADDED TAGS TRANSFER TO DRUM TABLE NAME ALL ENTRIES IN CORE TABLE NAME ALL ENTRIESP IN CORE TABLE ADTAG EXCEPT RESET ENTRIES DOES BIT 20 WD 9 OF THIS DOTAG EX TENTRIES DOES BIT 18 WD 9 OF PRIOR DOTAG EQ 1. YES. ERASE DEC WD 9 OF PRIOR DOTAG. WRITE DOTAG ON TAPE TWO. COUNT NR. OF NESTS	F2202660
	04254 0 76600 0 00222	WRS TAPE2	TAPE TWO	F22026/0
	04255 -0 53400 1 03763	LXD L(450) +1	COUNT NK.	F2202680
	04256 0 70000 1 00733 NEST90	CPY DOTAGZ 1	UF NESIS	F 2202690

			*** 00056	E2202700
04257 1 77777 1 04260	TXI	NEST95 • 1 • - 1	IN DUKEGO	F2202700
04260 3 00000 1 04256	NESTYS IXH	WE2140+1	DETUDN FOR NEYT NEST.	F2202720
04261 0 02000 0 04116	IKA	NEDI	OPTATAL	F2202730
04262 -0 53400 1 03674	DOFOR LXD	AC 3 L	NEVI BACK DO.	F2202740
04263 1 00011 1 04264	171	DUF 109199	TE ANY	F2202750
04264 3 00702 1 04164	DOF10 IXH	NESIEN 11 4 7 U	TE DOINED	F2202760
04265 0 07400 4 04363	TSX	DOINFO,4	AND GO TO TAGOO POUTINE.	F2202770
04266 0 02000 0 04377	TRA	TAGOO	AND SO TO FAGOU ROUTINES	F2202780
04267 -0 53400 1 03674	DOFEND LXD	XC91	15 A COUNTER	F2202790
04270 0 50000 1 00743	CLA	DOTAGZ+8 • 1		F2202800
04271 -0 32000 0 04004	ANA	BIT19		F2202000
04272 0 10000 0 04326	TZE	MAKESC	NECESCADY DECAUSE OF	E2202010
04273 -0 50000 1 00740	CAL	DOTAGZ+5,1	NECESSARY BECAUSE OF	F2202020
04274 -0 32000 0 04002	ANA	2BITS	TRANSFERS OR COMPUTATION WITH	F2202030
04275 -0 10000 0 04301	TNZ	DOF15	SYMBOL.	F2202040
04276 0 50000 0 04005	CLA	BIT20	TEST FOR	F2202050
04277 -0 32000 1 00741	ANA	DOTAGZ+6 • 1	DELTA IWO	F2202000
04300 0 10000 0 04305	TZE	DOF20	INSERT	F2202010
04301 0 50000 1 00741	DOF15 CLA	DOTAGZ+6 + 1	HAS A COUNTER BEEN	F2202880
04302 -0 32000 0 04001	ANA	BITTWO	FOUND.	F2202890
04303 -0 10000 0 04322	TNZ	DOF40	IF NOT.	F 2202900
04304 0 02000 0 04326	TRA	MAKESC	MAKE ONE. (RETURN IS TO DOF40)	F2202910
04305 0 50000 1 00740	DOF20 CLA	DOTAGZ+5 • 1	IF NO COUNTER NECESSARY	F2202920
04306 -0 32000 0 04003	ANA	SUBBIT	HAS SYM OCCURRED WITH	F2202930
04307 0 10000 0 04314	TZE	DOF30	RECON NOT AS TYPE ONE	F2202940
04310 0 50000 1 00743	CLA	DOTAGZ+8 • 1	CARRY. IF SO, HAS A	F2202950
04311 -0 73400 2 00000	PDX	0,2	TEST BEEN FOUND.	F2202960
04312 3 00000 2 04322	TXH	DOF40,2,0	IF NOT+	F2202910
04313 0 02000 0 04326	TRA	MAKESC	MAKE A COUNTER TRETURN IS TO DOF40	F2202900
04314 0 50000 1 00743	DOF30 CLA	DOTAGZ+8,1	IF SYM HAS NOT OCCURRED WITH	F2202990
04315 0 77100 0 00014	ARS	12	RELCON OR IN SUCH OCCURRENCES	F2203000
04316 -0 73400 2 00000	PDX	0,2	WAS ALWAYS A TYPE ONE	F2203010
04317 -3 00013 2 04322	TXL	DOF40,2,11	CARRY, IS CURRECT TEST	F2203020
04320 0 50000 0 04005	CLA	BBIT		F2203030
04321 -0 60200 1 00743	ORS	DOTAGZ+8 • 1		F2203040
04322 0 50000 0 04325	DOF40 CLA	DOF50	MADE. TAKE SIGN AND	F2203050
04323 0 32000 1 00743	ANS	DOTAGZ+8,1	TEST TABLE INTEGER OUT	F2203060
04324 0 02000 0 04262	TRA	DOFOR	OF TEST WORD AND EXIT.	F2203070
04325 +007777777777	DOF50 OCT	777777777		F2203080
04326 0 50000 0 03755	MAKESC CLA	L(4)	IN DOREC. (DEC HAS DOTAG IX) RETURN FOR NEXT NEST. OBTAIN NEXT BACK DO, IF ANY. USE DOINFO AND GO TO TAGOO ROUTINE. IS A COUNTER NECESSARY BECAUSE OF TRANSFERS OR COMPUTATION WITH SYMBOL. TEST FOR DELTA TWO INSERT HAS A COUNTER BEEN FOUND. IF NOT, MAKE ONE. (RETURN IS TO DOF40) IF NO COUNTER NECESSARY. HAS SYM OCCURRED WITH RECON NOT AS TYPE ONE CARRY. IF SO, HAS A TEST BEEN FOUND. IF NOT, MAKE A COUNTER (RETURN IS TO DOF40 IF NOT, MAKE A COUNTER (RETURN IS TO DOF40 IF SYM HAS NOT OCCURRED WITH RELCON OR IN SUCH OCCURRENCES WAS ALWAYS A TYPE ONE CARRY, IS CURRECT TEST MADE. TAKE SIGN AND TEST TABLE INTEGER OUT OF TEST WORD AND EXIT. INITIALIZE DOSUBS AND OTHER LOCATIONS USED IN INSOO. GET A NAME FOR THIS SUBSCRIPT AND UP DATE NEWTAG. USE INSOO FOR TEST INFO,LIST. SET UP TAG TAG ENTRY	F2203090
04327 0 60100 0 03731	STO	DOSUBS	DOSUBS AND OTHER LOCATIONS	F2203100
04330 0 50000 0 03751	CLA	L(0)	USED IN 1NSOO.	F2203110
04331 0 60100 0 03730	ST0	RCSUBS		F2203120
04332 0 60100 0 03727	STO	DORC		F2203130
04333 0 60100 0 03704	STO	C1		F2203140
04334 0 60100 0 03737	STO	CARWRD		F2203150
04335 0 50000 0 03673	CLA	NEWTAG	GET A NAME	F 2203160
04336 0 60100 0 03701	STO	TS	FOR THIS	F2203170
04337 0 40000 0 03765	ADD	L(1)A	SUBSCRIPT AND	F2203180
04340 0 60100 0 03673	STO	NEWTAG	UP DATE NEWTAG.	F2203190
04341 0 07400 4 06075	TSX	1NS00+4	USE INSOO FOR TEST INFO, LIST.	F2203200
04342 0 50000 0 03757	CLA	L(6)	SET UP TAG TAG	F2203210
04343 -0 50100 0 03767	ORA	L(4)A	ENTRY	F2203220
04344 -0 50100 0 03737	ORA	CARWRD	•	F2203230
Q-3-4 V 20400. V 0372.				

14:

									F2203240
		60200				SLW	E4		F2203250
	04346 0					CLA	15		F2203270
	04347 0					510	E3		F2203280
	04350 0					CLA	L(0)	•	F2203290
	04351 0	60100	0	05064		STO	EZ	•	
	04352 0	50000	0	03674		CLA	XC		F2203300
	04353 0	77100	0	00022		AR5	18		E2202210
	04354 -0	50100	0	03676		ORA	ALPHA		F2203320
	04355 0					\$10	E1	CHECO INTO TACTAC.	F2203340
	04356 0	07400	4	05510		TSX	TAGENT 94	ENTER INTO TAGTAG.	F2203330
	04357 -0	53400	1	03674		LXD	XC+1		F2203300
	04360 0	50000	0	04003		CLA	ABIT		F2203310
	04361 -0	60200	1	00743		ORS	DOTAGZ+8 +1	DETHON	F2203300
	04362 0	02000	0	04322		TRA	DOF 40	KEIUKN	F2203370
	04363 0	50000	1	00733	DOINFO	CLA	DOTAGZ + I	THE DO PORMULA WHOSE	F2203400
	04364 0	73400	2	00000		PAX	0,2	INDEX IS IN ARAS.	F2203410
	04365 -0	32000	0	03772		ANA	DECMSK	ESTADLISH	F2203420
	04366 0	60100	0	03676		STO	ALPHA	ALPHA & BE ! A & AC & AL	F2203430
	04367 -0	75400	2	00000		PXD	0 • 2		F2203440
	04370 0	60100	0	03677		STO	BETA		F2203450
	04371 -0	75400	1	00000		PXD	0,1		F2203400
	04372 0	60100	0	03674		STO	XC		E2203410
	04373 0	50000	1	00740		CLA	DOTAGZ+5 1		F2203400
	04374 -0	32000	0	03772		ANA	DECMSK	•	F2203470
	04375 0	60100	0	03675		STO	LC		F2203500
	04376 0	02000	4	00001		TRA	1,4	RETURN FOR THE DO FORMULA WHOSE INDEX IS IN XRA, ESTABLISH ALPHA, BETA, XC, XL THIS ROUTINE SELECTS EVERY TAG IN THE RANGE OF THE CURRENT DO WHICH CONTAINS THE SUBSCRIPT SYMBOL OF THE CURRENT AND WHICH HAS NOT [ERROR, GO TO DIAGNOSTIC, PREVIOUSLY BEEN	F2203310
	04377 -0	53400	1	03764	TAG00	LXD	L(1500+1	THIS ROUTINE	F2203320
	04400 0	02000	0	04407		TRA	TAG20	SELECTS EVERY TAG	F2203330
	04401 0	50000	1	03670	TAG05	CLA	FORTZ 1	IN THE KANGE OF THE	F2203340
	04402 -0	32000	0	03772		ANA	DECMSK	CURRENT DO WHICH	F2203330
	04403 0	34000	0	03676		CAS	ALPHA	CONTAINS THE SUBSCRIPT	F2203500
	04404 0	02000	0	04413		TRA	TAG30	SYMBOL OF THE CURRENT	152202510
	04405 0	07400	4	00004		TSX	DIAG,4 DO,	PREVIOUSLY BEEN	F2202500
	04406 1	77777	1	04407	TAG10	TXI	TAG20,1,-1	PREVIOUSLY BEEN	F2203330
D	04407 3	00000	1	04401	TAG20	TXH	TAG05 • 1	PRUCESSED, AND (DEC MAS FORTAG IA)	F2203600
	04410 0	02000	0	04267		TRA	DOFEND	THE TAG. THE DETRION	F2203610
	04411 -0	53400	1	04414	TAG25	LXD	TAG40,1	PROCESSED+ AND (DEC HAS FORTAG IX) COMPLETELY PROCESSES THE TAG. THE RETURN IS TO DOFEND COMPARE WITH BETA.	F2203620
	04412 0	02000	0	04406		TRA	TAGIO	CONDADE WITH BETA	F2203650
	04413 0	34000	0	03677	TAG30	CAS	BETA	COMPARE WITH DEIAN	F2203650
D	04414 -3	00000	0	04267	TAG40	TXL	DOFEND O	KANGE FINISHEDA (DEC HAS CORR FORTAG IA)	F2203650
	04415 0	76100	0	00000		NOP		THEN IT HAS ALDEADY	F2203660
	04416 0	50000	1	03670		CLA	FORTZ+1	INCH II HAS ALKEAUT	F2203610
	04417 -0	12000	0	04406		TMI	TAG10	SEEN PROCESSED.	F2203660
	04420 -0	32000	0	03773		ANA	ADDMSK	SIURE IN TAG	F2203070
	04421 0	60100	0	03700		\$10	TAG	AND CAME THREY.	F2203720
	04422 -0	63400	1	04414		SXD	1AG40+1	AND SAVE INDEAS	F2203720
	04423 0	07400	4	04520		TSX	SUBCUM #4	OBTAIN SUD. COM	F2202745
	04424 0	76100	0	00000		NOP	TOTAL !	HEE TOENT	F2202750
	04425 0	07400	4	05566		TSX	IDENT 94	USE IDENIA	F2202760
	04426 0	02000	0	04411		TRA	TAG25	PROCESSED, AND (DEC HAS FORTAG IX) COMPLETELY PROCESSES THE TAG. THE RETURN IS TO DOFEND COMPARE WITH BETA. RANGE FINISHED. (DEC HAS CURR FORTAG IX) IF ENTRY IS NEGATIVE, THEN IT HAS ALREADY BEEN PROCESSED. STORE IN TAG., AND SAVE INDEX. OBTAIN SUB. COM. USE IDENT. SC. NOT WANTED. SC. TO BE PROCESSED. USE NAME.	F2202770
	04427 0	07400	4	06030		TSX	NAME • 4	200 IN DE PROCESSEDO USE NAMEO	F2202710
	04430 0	07400	4	05106		TSX	BRANCH • 4		F2202000
	04431 0	07400	4	04614		TSX	SCEND + 4		F2203000
	04432 0	07400	4	05510		TSX	TAGENT +4		F2203810

	' .				F2203820
	04433 -0 53400 2 03756	TAG50 LXD	L(5) +2	ENTER BIT 18 WD 9 OF MATCHING DOTAG IF 1ST SUBSCR OR IF THERE IS NO TYPE 1 CARRY INTO THE 2ND AND 3RD SUBSCRS RESPECTIVELY. ENTER BIT 18 WD 9. TAG 60 SEQUENCE CONCERNS TESTS AND ADDED TAGS.	F2203830
	04434 0 50000 2 03721	IAG52 CLA	X1+294	OF MATCHING DOTAG	F2203840
	04435 0 10000 0 04447	145	TAG58	IF 1ST SUBSCR OR	F2203850
	04436 -0 73400 1 00000	704	0+1 TAG56+2+4 CR1	IF THERE IS NO	F2203860
	04437 3 00004 2 04445	CLA	(AG201214	TYPE 1 CARRY INTO	F2203870
	04440 0 50000 0 03774		TAG54+2+2	THE 2ND AND 3RD	F2203890
	04441 3 00002 2 04443		180241212	SUBSCRS RESPECTIVELY.	F2203900
	04442 0 77100 0 00002		CADMED	SOBSCRO RESILENTE	F2203910
	04443 -0 32000 0 03737	IAUD4 ANA	TAG58		F2203920
	04444 -0 10000 0 04447		ARIT	ENTER BIT 18 WD 9.	F2203930
	04445 0 50000 0 04003	1AGOD CLA	DOTAGZ+8+1	ENIER DEF TO HE FE	F2203940
	04446 -0 60200 1 00743		TAGE 2.2.2	•	F2203950
	04446 -0 60200 1 00743 04447 2 00002 2 04434 04450 -0 53400 4 03756	IAGDO IIA	TAG52,2,2 L(5),4 X1+5,4 TAG68 0,1 RCSUBS	TAG 60 SEQUENCE CONCERNS TESTS AND ADDED TAGS. FOR EACH INDEXED SUBSCRIPT. DETERMINE F IRST WHETHER	F2203960
	04450 -0 53400 4 03756	TACKO CLA	V145.4	TESTS AND ADDED TAGS.	F2203970
	04451 0 50000 4 03721	TAGOU CLA	TAGER	FOR EACH INDEXED SUBSCRIPT.	F2203980
	04452 0 10000 0 04500	125	0.1	DETERMINE F IRST WHETHER	F2203990
	04453 -0 73400 1 00000	CLA	DCCHRC	OR NOT IT	F2204000
	04454 0 50000 0 03730	CLA	NC3003	OCCURS WITH	F2204020
	04455 -0 50100 0 03727	77E	TAGES	A REI CON-	F2204030
	04456 0 10000 0 04470	120	TAG64.4.1	IF SO PUT IN	F2204040
	04457 -3 00001 4 04465	CLA	CD1	SURBIT MEANING A TEST	F2204050
	04460 0 50000 0 03774	TVI	TAG62.4.3	IS NEEDED UNLESS	F2204060
	04461 3 00003 4 04463	ADS	2	THE 1ST AND 2ND	F2204070
	04462 0 77100 0 00002 04463 -0 32000 0 03737	TAGES ANA	CARWRD	SUBSCR PROMOTE A	F2204080
	04464 -0 10000 0 04500	TN7	TAG68	TYPE ONE CARRY (LEFT	F2204090
	04465 0 50000 0 04003	TAGGA CLA	SUBBIT	OR CENTER RESPECTIVELY)	F2204100
	04466 -0 60200 1 00740	ORS	DOTAGZ+5 • 1	IS	F2204110
•	04467 -3 00000 0 04500	TAG65 TXL	TAG68 • 0	OR NOT IT OCCURS WITH A RELCON. IF SO, PUT IN SUBBIT MEANING A TEST IS NEEDED UNLESS THE 1ST AND 2ND SUBSCR PROMOTE A TYPE ONE CARRY (LEFT OR CENTER RESPECTIVELY) IS NEEDED. IF THE SUBSCRIPT DOES NOT 3CCUR WITH A RELCON, DETERMINE WHETHER OR NOT A COUNTER HAS ALREAD Y BEEN REQUESTED. IF SO, TAKE NEXT INDEXED SUBSCR.	F2204120
D	04470 0 50000 0 04004	TAGGG CLA	BIT19		F2204130
	04471 -0 60200 1 00743	ORS	DOTAGZ+8 • 1		F2204140
	04472 0 50000 1 00740	CLA	DOTAGZ+5.1	IF THE SUBSCRIPT DOES NOT 3CCUR	F2204160
	04473 -0 32000 0 04002	ANA	2BITS	WITH A RELCON, DETERMINE WHETHER OR	F2204170
	04474 -0 10000 0 04500	TN7	TAG68	NOT A COUNTER HAS ALREAD Y BEEN REQUESTED.	F2204180
	04474 -0 10000 0 04500	SXD	TAG65+4	IF SO, TAKE NEXT INDEXED SUBSCR.	F2204190
	04475 -0 03400 4 04407	TSX	TEST • 2	IF NOT. USE ROUTINE TEST.	F2204200
	04410 0 01400 2 04007	LXD	TAG65.4	THEN TAKE NEXT INDEXED SUBSCRIPT.	F2204210
	04500 2 00002 4 04451	TAG68 TIX	TAG60.4.2		F2204220
	04501 -0 53400 1 04414	TAG70 LXD	TAG40.1	SET ALL OCCURRANCES	F2204230 F2204240
	04502 0 50000 1 03670	TAG72 CLA	FORTZ+1	OF THIS TAG, IN FORTAG,	F2204240
	04502 -0 32000 1 03070	ANA	DECMSK	IN THE RANGE OF THIS	F2204250
	04504 0 34000 0 03677	CAS	BETA	DO, NEGATIVE.	F2204260
	04505 -3 00000 0 04411	TAG75 TXL	TAG25+0	NOT A COUNTER HAS ALREAD Y BEEN REQUESTED. IF SO, TAKE NEXT INDEXED SUBSCR. IF NOT, USE ROUTINE TEST. THEN TAKE NEXT INDEXED SUBSCRIPT. SET ALL OCCURRANCES OF THIS TAG, IN FORTAG, IN THE RANGE OF THIS DO, NEGATIVE.	F2204270
D	04506 0 76100 0 00000	NOP	***************************************		F2204280
	04507 0 50000 1 03670	CLA	FORTZ+1		F2204290
	04510 -0 32000 0 03773	ANA	ADDMSK	•	F2204300
	04511 0 40200 0 03700	SUB	TAG		F2204310
	04512 -0 10000 0 04515	TNZ	TAG80		F2204320
	04512 -0 10000 0 03770	CAL	L(MZ)	DO. NEGATIVE.	F2204330
	04514 -0 60200 1 03670	ORS	FORTZ:1		F2204340
	04515 1 77777 1 04516	TAG80 TXI	TAG90,1,-1		F2204350
D	04516 3 00000 1 04502	TAG90 TXH	TAG72.1	(DEC HAS FORTAG IX) RETURN FOR NEXT TAG. GIVEN A TAU TAG, OBTAINS THE	F2204360
U	04517 0 02000 0 04411	TRA	TAG25	RETURN FOR NEXT TAG.	F2204310
	Q-1227 Q 02000 C Q 1122		THIS ROUTINE,	GIVEN A TAU TAG. OBTAINS THE	F 2204380

							CORRESPOND	ING SUBSCR	IPT CO	DMBINATION	FROM THE TAU MAT IN STORAG GE INDEX. ERROR COUNT DRUM. COMBINATION COMBINATION COMB. WO. IS ORG+3T. ADD. IS ORG+3T. ADD. IS ORG+ TILL PRESENT. OUTINE, MAKE AGREE, TRA. ERROR. GO TO C1,C2,D1,D2, WITH CORE		F2204390
							DRUM AND P	OSITIONS I	T IN F	PROPER FORM	AT IN STORAG	E∙	F2204400
04520	-0	63400	4	04601	SUBCOM	SXD	SUB085 #4			SAVE LINKA	GE INDEX.		F2204410
04521	-0	53400	1	04607		LXD	SUBORG • 1			INITIALIZE	ERROR COUNT	ER∙	F2204420
04522	ŏ	76200	ō	00304	SUB010	RDS	TAUDRM			SELECT TAU	J DRUM.		F2204430
04523	-0	53400	4	04611		LXD	SUBORG+2,4			INITIALIZE			F2204440
04524	-0	75400	ò	00000		PXD	0.0			SUBSCRIPT	COMBINATION		F2204450
04525	ŏ	60100	4	03714	SUB020	STO	C1+8,4			SPACE			F2204460
04526	2	00001	4	04525		TIX	SUB020,4,1			TO ZERO.			F2204470
04527	ō	50000	ò	03700		CLA	TAG			COMPUTE			F2204480
04520	ŏ	76500	ñ	00011		LRS	9			DRUM	,		F2204490
04531	õ	73400	6	00000		PAX	0,6			ADDRESS.			F2204500
04532	-0	75400	ō	00000		PXD	0,0			TAU ONE AD	D. IS ORG+3T	AU.	F2204510
04533	ŏ	76300	Ŏ.	00011		LLS	9			TAU TWO AD	D. IS ORG+5T	AU∙	F2204520
04534	õ	60100	ō	04612		STO	SUBES1			TAU THREE	ADD. IS ORG+	7TAU•	F2204530
04535	ŏ	76700	ŏ	00001		ALS	1		•	STORE			F2204540
04536	ŏ	60100	ŏ	04613		STO	SUBES2			ADDRESS			F2204550
04537	ŏ	50000	4	04612		CLA	SUBORG+3,4			IN SUBES1			F2204560
04540	ŏ	40000	ò	04612		ADD	SUBES1			FOR LDA			F2204570
04541	ŏ	40000	Õ	04613	SUB030	ADD	SUBES2			INSTRUCTIO	in•		F2204580
04542	2	00001	4	04541		XIT	SUB030,4,1						F2204590
04543	0	62100	o	04612		STA	SUBES1						F2204600
04544	ŏ	46000	ň	04612		LDA	SUBES1			COPY SUB.	COMB.		F2204610
04545	õ	70000	ŏ	03704		CPY	C1			TAU ONE. T	WO. THREE		F2204620
04546	-3	00002	2	04550		TXL	SUB040+2+2						F2204630
04547	õ	70000	õ	03710		CPY	C3			TAU 3			F2204640
04550	õ	70000	õ	03705	SUB040	CPY	S1			TAU 1.2.3			F2204650
04551	-3	00001	2	04556		TXL	SUB060+2+1						F2204660
04552	ő	70000	õ	03707		CPY	\$2			TAU 2,3			F2204670
04552	-3	00002	2	04555		TXL	SUB050,2,2						F2204680
04554	õ	70000	ō	03711		CPY	53			TAU 3			F2204690
04555	ŏ	70000	ō	03712	SUB050	CPY	D1			TAU 2,3			F2204700
04556	ō	70000	Ō	04612	SUB060	CPY	SUBES1			TAU 1,2,3			F2204710
04557	-0	53400	4	04607		LXD	SUBORG • 4			COMPUTE CH	ECK SUM		F2204720
04560	-0	50000	0	03704		CAL	C1			AND COMPAR	E WITH		F2204730
04561	0	36100	4	03713	SUB070	ACL	C1+7•4			ENTRY CHEC	K SUM.		F2204740
04562	2	00001	4	04561		TIX	SUB070,4,1			THREE ATTE	MPTS ARE MADE	Ē	F2204750
04563	ō	60200	0	04613		SLW	SUBES2			TO READ SC	CORRECTLY.		F2204760
04564	Ō	50000	0	04613		CLA	SUBES2			IF ERROR S	TILL PRESENT	•	F2204770
04565	Ö	40200	Ō	04612		SUB	SUBES1			COMPLETE R	OUTINE, MAKE	ERROR RET.	F2204780
04566	ō	10000	0	04571		TZE	SUB075			CHECK SUMS	AGREE, TRA.		F2 204790
04567	2	00001	1	04522		TIX	SUB010,1,1	CHECK	SUMS D	ISAGREE			F2204805
04570	ō	07400	4	00004	PAT03	TSX	DIAG,4 IN	READING TA	AU FRO	M DRUM.	ERROR. GO TO	DIAGNOSTIC.	F2204815
04571	-0	53400	4	04610	SUB075	LXD	SUBORG+1,4			REARRANGE	C1,C2,D1,D2,		F2204820
04572	Ō	50000	4	03713	SUB080	CLA	C1+7.4			TO COMPLY	WITH CORE		F2204830
04573	õ	73400	2	00000		PAX	0.2			STORAGE FO	RMAT.		F2204840
04574	-0	32000	0	03772		ANA	DECMSK						F2204850
04575	0	60100	4	03713		STO	C1+7,4						F2204860
04576	-0	75400	2	00000		PXD	0 • 2						F2204870
04577	-2	00006	4	04602		TNX	SUB090,4,6						F2204880
04600	ō	60100	0	03706		STO	C2						F2204890
04601	-3	00000	ō	04572	SUB085	TXL	SUB080,0						F2204900
04602	ō	60100	0	03713	SUB090	STO	D2				ERROR. GO TO C1,C2,D1,D2, WITH CORE RMAT.		F2204910
04603	-0	53400	4	04601		LXD	SUB085,4			RESTORE LI	NKAGE INDEX,		F2204920
J . U U J	_												

		76100 0 00000	NOP				CTUDAL O		F2204935 F2204940
	04605 0	02000 4 00002	TRA	2,4 6001356 7000454 10000000		NORMAL R	E IURN.		F2204955
	04606 0	76100 0 00000	SUB100 NOP				tc	TALL 2	F2204960
	04607 +00	00006001356	SUBORG OCT	6001356		DEC. 15 6	ADD. IS ORG	TAU 2	F2204970
	04610 +00	00007000454	OCT	7000454		DEC. IS	7. ADD. IS OR	SA INU Z	F2204980
		00010000000	oct	10000000		DEC. 15	8. ADD. IS OR	34 IAU 1	F2204990
		00000 0 00000	SUBES1 HTR			E.S.			F2205000
	04613 0	00000 0 00000							
				SCEND COLLECTS GROUP	TAGTAG ENT	RY AND MA	KES TABLE ENTI	₹ Υ	F2205010
	04614 0	50000 0 03703	SCEND CLA	GROUP		ALL OF S	CEND IS CONCE	RNED	F2205020
		60100 0 03702	STO	TAG1		WITH GEN	ERATING THE		F2205030
	04616 0	50000 0 03731	CLA	DOSUBS		TAGTAG E	NTRY FROM ITS		F2205040
	04617 -0	50100 0 03734	ORA	DUPES					F2205050
		77100 0 00022	ARS	18		VARIOUS	COMPONENTS.		F2205060
		60200 0 03702	ORS	TAG1			• •		F2205070
	04622 0	50000 0 03730	CLA	RCSUBS		* •			F2205079
		50100 0 03727	- ORA	DORC					F2205080
		77100 0 00017	ARS	_15					F2205100
		60200 0 03702	ORS	TAG1			COMPONENTS.		F2205110
		50000 0 03734	CLA	DUPES					F2205120
		77100 0 00011	ARS	9					F2205130
		60200 0 03702	ORS	TAG1					F2205140
		50000 0 03737	CAL	CARWRD					F2205150
		60200 0 03702	ORS	TAG1					F2205160
		53400 1 03756	LXD	L(5) +1					F2205170
	04634 0	50000 0 03752	SCE010 CLA	SCEND COLLECTS GROUP TAG1 DOSUBS DUPES 18 TAG1 RCSUBS DORC 15 TAG1 DUPES 9 TAG1 CARWRD TAG1 L(5),1 L(1) C1+5,1 SCE020 SCE020 O,1 SCE015,1,1 L(1) 6 TAG1					F2205180
	04635 0	34000 1 03711	CAS	C1+5+1		GENERATE	S THE THREE BI	i T	F2205190
		02000 0 04645	TRA	SCE020		TAG SHOW	ING WHICH ENTS ARE GREAT		F2205200
		02000 0 04645	TRA	SCE020		COEFFICI	ENTS ARE GREAT	rer	F2205210
		75400 1 00000	PXD	0+1		THAN ONE	•		F2205220
	04641 -3	00001 1 04643	TXL	SCE015,1,1					F2205230
	04642 0	40200 0 03752	SUB	L(1)			•		F2205240 F2205250
	04643 0	77100 0 00006	SCE015 ARS	6			*		
	04644 -0	60200 0 03702	ORS	TAG1				4	F2205260
	04645 2	00000 1 04634	SCE020 TIX	SCE010.1.2					F2205270
	04646 0	50000 0 03702	CLA	TAG1		TAG1 IS	NOW COMPLETE.	•	F2205280
	04647 0	60100 0 05066	STO	E4		CONSTRUC	T THE TAGTAG		F2205290
	04650 0	50000 0 03700	CLA	TAG		ENTRY			F2205300
	04651 0	76700 0 00022	ALS	18					F2205310
	04652 0	40000 0 03701	ADD	TS					F2205320
	04653 0	40300 0 05165	STO	E3					F2205330
	04654 0	50100 0 03003	CLA	L(1) 6 TAG1 SCE010,1,2 TAG1 E4 TAG 18 TS E3 X3 18 X2			**		F2205340
	04654 0	77100 0 00022	ARS	18					F2205350
	04655 0	40000 0 00022	ADD	¥2					F2205360
	04656 0	40000 0 05710	STO	F2					F2205370
		60100 0 05064 50000 0 03714	CI.A	X1				. `	F2205380
		77100 0 00022		18					F2205390
				ALPHA					F2205400
	-	40000 0 03676		E1					F2205410
	•	60100 0 05063	TPA	1.4					F2205420
-		02000 4 00001 50000 1 00743	TEST CLA	DOTAGZ+8+1		IF A SUF	FICIENTLY GOOD		F2205430
			TM1	E1 1,4 DOTAGZ+8,1 1,2 TEST10,4,1 0,4		TEST PRE	VIOUSLY FOUND	EXIT.	F2205440
		12000 2 00001	T1Y	TEST10.4.1		XRC CONT	AINS 5,3,1,		F2205450
	04667 2	00001 4 04670	TESTIN DVN	0.4		DEPENDIN	G ON POSITION	NR	F2205460
	04670 -0	75400 4 00000	IESTIO PAD	U 7 T					

	04471 0 76700 0 00003		ALS 3	1,2,3. CONSTRUCT A	F2205470
	04672 -0 50100 0 03703		ORA GROUP	TABLE SEARCH MASK IN	F2205480
	04673 =3 00001 4 04701		TXL TEST20.4.1	WHICH THE FORTH OCTAL	F2205490
	04674 0 60100 0 04732		STO TEST85	DIGIT IS THE CARRY BIT	F2205500
	04675 0 50000 0 03737		CLA CARWRD	INFO. FOR THE POSITION	F2205510
	04675 0 76700 4 00005		ALS 5.4	BEING CONSIDERED, THE	F2205520
	04677 -0 32000 0 04733		ANA TESTO	FIFTH OCTAL DIGIT IS THE	F2205530
	04700 -0 50100 0 04732		ORA TEST85	POSITION BIT. AND THE	F2205540
	04701 -0 53400 4 04704	TEST20	LXD TEST35.4	SIXTH OCTAL DIGIT	F2205550
	04701 -0 35400 4 04754	TEST30	CAS TESTAB+15.4	IS THE GROUP NUMBER.	F2205560
	04702 0 34000 4 04704	120130	TXI TEST40.41	SEARCH TESTAB FOR	F2205570
	04704 -3 00017 0 04707	TEST35	TXL TEST50.0.15	ENTRY AND CONSIDER	F2205580
	04705 1 77777 4 04706	, 20, 22	TXI TEST40.41	C(XRC) AFTER SEARCH, IF	F2205590
	04706 3 00000 4 04702	TEST40	TXH TEST30,4,0	ENTRY NOT FOUND (XRC) = 0 +	F2205600
	04707 -0 63400 4 04715	TEST50	SXD TEST60.4	COMPARE THIS INTEGER	F2205610
	04710 0 50000 1 00743	,	CLA DOTAGZ+8,1	WITH PREVIOUS INTEGER,	F2205620
	04711 -0 73400 4 00000		PDX 0.4	IF ANY. IF NEW NR. IS LESS	F2205630
	04712 -3 00000 4 04720		TXL TEST75,4,0	THAN OLD, USE NEW TAG	F2205640
	04713 0 77100 0 00014		ARS 12	FOR TEST. OTHERWISE	F2205650
	04714 -0 73400 4 00000		PDX 0,4	USE OLD TAG.	F2205660
	04715 -3 00000 4 04731	TEST60	TXL TEST80,4	(DEC HAS TEST TAB NR. FOR THIS S.C.)	F2205670
	04716 0 50000 0 04734	TEST70	CLA TEST95	IF THE NEW TAG IS	F2205680
	04717 0 32000 1 00743		ANS DOTAGZ+8,1	USED, AND CIXRC)	F2205690
	04720 -0 53400 4 04715	TEST75	LXD TEST60.4	AFTER SEARCH WAS ZERO,	F2205700
	04721 -0 75400 4 00000		PXD 0 94	SET DOTAGZ+8 WORD	F2205710
**	04722 0 77100 0 00006		ARS 6	NEGATIVE.	F2205720
	04722 -0 50100 0 03701		ORA TS		F2205730
	04724 0 76700 0 00022		ALS 18		F2205740
	04725 -0 60200 1 00743		ORS DOTAGZ+8+1		F2205750
	04726 3 00000 4 04731		TXH TEST80,4,0		F2205760
	04727 -0 50000 0 03770		CAL L(MZ)		F2205770
	04730 -0 60200 1 00743		ORS DOTAGZ+8.1		F2205780
	04731 0 02000 2 00001	TEST80	TRA 1.2		F2205790
	04732 0 00000 0 00000	TEST85	HTR	STORAGE FOR COMPOSED TST WORD.	F2205800
	04733 +000300000000	TEST90	OCT 300000000	BITS 10: 11	F2205810
	04734 +000000777777	TEST95	OCT 777777		F2205820
	04735 +000241000000	TESTAB	OCT 241000000	FIRST SIGNIF DIGIT CONTAINS	F2205830
	04736 +000221000000		OCT 221000000	A TWO IF TYPE ONE CARRY •	F2203840
	04737 +000244000000		OCT 244000000	ONE IF TYPE TWO FROM LEFT OR	F220585U
	04740 +000222000000		OCT 222000000	CENTER. (4TH OCT DIG). NEXT	F2205000
	04741 +000141000000		OCT 141000000	HAS 4 IF POSIT OF SUBSC IS	F220501U
	04742 +000121000000		OCT 121000000	LEFT, 2 IF CENTER, 0 IF RIGHT	F2205860
	04743 +000144000000		OCT 144000000	(5TH OCT DIGIT). FINAL DIG HAS	F2205690
	04744 +000122000000		OCT 122000000	GROUP NR. (6TH OCT DIG).	F2205900
	04745 +000045000000		OCT 45000000		F2205910
	04746 +000041000000		OCT 41000000		F2205920
	04747 +000021000000		OCT 21000000		F2205060
	04750 +000044000000		OCT 44000000	•	F2205940
	04751 +000022000000		OCT 22000000		F2205950
	04752 +000043000000		OCT 43000000		F2205950
	04753 +000023000000		OCT 23000000		F2205000
	04754 -0 63400 4 04770	CARRY	SXD CARO5+4	SAVE LINKAGE	F2205000
	04755 0 50000 2 03720		CLA X1+4,2	1,2,3. CONSTRUCT A TABLE SEARCH MASK IN WHICH THE FORTH OCTAL DIGIT IS THE CARRY BIT INFO. FOR THE POSITION BEING CONSIDERED, THE FIFTH OCTAL DIGIT IS THE POSITION BIT, AND THE SIXTH OCTAL DIGIT IS THE GROUP NUMBER. SEARCH TESTAB FOR ENTRY AND CONSIDER C(XRC) AFTER SEARCH, IF ENTRY NOT FOUND.C(XRC)=0. COMPARE THIS INTEGER WITH PREVIOUS INTEGER, IF ANY. IF NEW NR. IS LESS THAN OLD, USE NEW TAG FOR TEST. OTHERWISE USE OLD TAG. (DEC HAS TEST TAB NR. FOR THIS S.C.) IF THE NEW TAG IS USED. AND C(XRC) AFTER SEARCH WAS ZERO, SET DOTAG2+8 WORD NEGATIVE. STORAGE FOR COMPOSED TST WORD. BITS 10, 11 FIRST SIGNIF DIGIT CONTAINS A TWO IF TYPE ONE CARRY , ONE IF TYPE TWO FROM LEFT OR CENTER. (4TH OCT DIGI. NEXT HAS 4 IF POSIT OF SUBSC IS LEFT, 2 IF CENTER, 0 IF RIGHT (5TH OCT DIGIT). FINAL DIG HAS GROUP NR. (6TH OCT DIG).	F2204000
	04756 -0 73400 1 00000		PDX 0+1	IN XKA	F 2 2 0 0 0 0 0
	-				

1.1

04757 0	50000	2 03722		CLA	X1+6,2	PUT RIGHT INDEX	F2206010
04760 -0	73400	4 00000		PDX	0,4	IN XRC	F2206020
04761 0	50000	1 00740		CLA	DOTAGZ+5,1	TEST LEFS SUB. DO	F2206030
04762 -0	32000	03776		ANA	CARMSK	CARRY BITS.	F2206040
04763 0	10000	05022		TZE	CAR30	EXIT IF NO CARRY.	F2206050
04764 0	50000	1 00741		CLA	DOTAGZ+6,1	COMPARE	F2206060
04765 -0	32000	03772		ANA	DECMSK	NO CARRY TRA LEVEL	F2206070
04766 0	34000	03723		CAS	LL	AND LOW LEVEL.	F2206080
04767 0	02000	05022		TRA	CAR30	EXIT	F2206090
04770 -3	00000	05022	CAR05	TXL	CAR30+0		F2206100
04771 0	50000	1 00740		CLA	DOTAGZ+5,1	COMPUTE FOR LEFT	F2206110
04772 -0	32000	0 03773		ANA	ADDMSK	SUBSCRIPT THE QUANTITY	F2206120
04773 0	60100	05024		STO	CAR40	C*X (COEF. TIMES ADDED	F2206130
04774 0	56000	05024		LDQ	CAR40	VALUE).	F2206140
04775 0	20000	2 03710		MPY	C1+4+2	COMPUTE FOR RIGHT	F2206150
04776 -0	60000	05024		STQ	CAR40	SUBSCRIPT THE QUANTITY	F2206160
04777 0	56000	0 03712		LDQ	D1	C*N3*D(L) (COEF.TIMES	F2206170
05000 3	00002	2 05002		TXH	CAR10.2.2	INCREMENT TIMES DIM. OF	F2206180
05000	56000	03713		LDQ	D2	LEFT SUBSCRIPT.	F2206190
05001 0	20000	4 00737	CAR10	MPY	DOTAGZ+4+4	IF THESE QUANTITIES	F2206200
05002 0	20000	03712	2,,,,	MPY	C1+6+2	ARE UNEQUAL.	F2206210
05005 0	76700	00021		ALS	17	EXIT	F2206220
05004 0	40200	05021		SUB	CAR40		F2206230
05005 -0	10000	05024		TNZ	CAR30	ORTAIN LEFT	F2206240
05000 -0	50000	1 00740		CLA	DOTAG7+5+1	SUB. DOTAG	F2206250
05007 0	32000	03776		ANA	CARMSK	CARRY BITS AGAIN.	F2206260
05010 -0	77100	0 00017		ARS	15	TEST FOR	F2206270
05011 0	76000	00021		IRT		CARRY TYPE ONE	F2206280
05012 0	03000	0.0001		TPA	CAR15	OR CARRY TYPE	F2206290
05015 0	50000	0 03010		CLA	CPI	TWO	F2206300
05014 0	02000	9 0511 4		TDA	CARRO	ORTAIN PROPER	F2206310
05015 0	50000	J 02011	CADIS	CLA	CP2	TAGTAG CARRY BIT.	F2206320
05016 0	20000	0 05113 3 05031	CARIS	TVU	CAP25.2.2	SHIFT IF NECESSARY FOR	F2206330
05011 3	77100	2 05021	CARZO	ADS	2	CENTER SHR. AND	F2206340
05020 0	17100	00002	CADOS	ARS	CARWER	DIACE TN CARWED.	F2206350
05021 -0	50200	J USISI	CARZO	1 20	CAROSA	FYIT	F2206360
05022 -0	23400	04770	CARSO	TDA	LAKUJ94	ENTI	F2206370
05023 0	02000	4 00001	64546	IKA	194	E.c.	F2206380
05024 0	00000	00000	CAR4U	HIK	1.15740-4	CAVE LINKAGE	F2206400
05025 -0	63400	4 05060	LISI	280	L1514094	SAVE LIMINAGE	F2206410
05026 -0	73400	00000		PDX	0.1	DUT NO. OF MOS IN YOR.YOS.	F2206420
05027 0	73400	5 00000		PAX	0,6	COMPUTE NO. OF HODE	F2206420
05030 0	40000	05061		ADD	LISTSO	COMPUTE NRA OF WROS	F2200430
05031 0	62100	05046		STA	LIST30	PLUS ORIGIN EI AND	F2206440
05032 0	62100	05041		STA	LIST20	INITIALIZE ADDRESSES.	F2206430
05033 0	50000	1 05106		CLA	LADDIN+5 1	TESI	F2206450
05034 0	77100	00022		ARS	18	FOK	F220410
05035 0	40200	05101		SUB	LADDS+5,1	FULL	F2204400
05036 -0	10000	05040		TNZ	LIST10	TABLE.	F220649U
05037 0	07400	4 07774		TSX	BURNCE , 4	DRUM OVERFLOW, GO SAVE INA BEFORE DIAG.	F2206505
05040 -0	75400	00000	LIST10	PXD	0,0	ZERO IN ACC.	F220691U
05041 0	36100	2 00000	LIST20	ACL.	0,2	COMPUTE	F2206520
05042 2	00001	2 05041	,	TIX	LIST20,2,1	ENTRY	F 2206530
05043 0	76600	00303		WRS	ADRUM	SELECT DRUMF	F 2206535
05044 0	60200	05062		SLW	LIST60	PUT RIGHT INDEX IN XRC TEST LEFS SUB. DO CARRY BITS. EXIT IF NO CARRY. COMPARE NO CARRY TRA LEVEL AND LOW LEVEL. EXIT COMPUTE FOR LEFT SUBSCRIPT THE QUANTITY C*X (COEF. TIMES ADDED VALUE). COMPUTE FOR RIGHT SUBSCRIPT THE QUANTITY C*N3*D(L) (COEF.TIMES INCREMENT TIMES DIM. OF LEFT SUBSCRIPT. IF THESE QUANTITIES ARE UNEQUAL. EXIT OBTAIN LEFT SUB. DOTAG CARRY BITS AGAIN. TEST FOR CARRY TYPE ONE OR CARRY TYPE TWO. OBTAIN PROPER TAGTAG CARRY BIT. SHIFT IF NECESSARY FOR CENTER SUB. AND PLACE IN CARWRD. EXIT E.S. SAVE LINKAGE PUT INDEX QUANTITY IN XRA PUT NR. OF WDS IN XRB.XRC. COMPUTE NR. OF WRDS PLUS ORIGIN EI AND INITIALIZE ADDRESSES. TEST FOR FULL TABLE. DRUM OVERFLOW, GO SAVE IRA BEFORE DIAG. ZERO IN ACC. COMPUTE ENTRY SELECT DRUMF CHECK SUM.	F2206540

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											_		
-		05045	0	46000	1	05101		LDA	LADDS+5,1		2	COPY ENTRY ENTRY END CHECK SUM. COMPUTE HEXT ENTRY LDDRESS. EXIT	F2206550
		05046	0	70000	4	00000	LIST30	CPY	0,4		E	NTRY	F2206560
		05047	2	00001	4	05046		TIX	LIST30,4,1		A	IND	F2206570
		05050	0	70000	0	05062		CPY	LIST60		C	HECK SUM.	F2206580
		05051	0	50000	1	05101		CLA	LADDS+5,1		C	OMPUTE	F2206590
		05052	0	40000	1	05074		ADD	TSXCOM+5,1		N	IEXT	F2206600
		05053	0	40000	0	03765		ADD	L(1)A		Έ	NTRY	F2206610
		05054	~0	32000	0	03773		ANA	ADDMSK		A	ADDRESS.	F2206620
		05055	0	60100	1	05101		STO	LADDS+5,1				F2206630
		05056	-0	53400	4	05060		LXD	LIST40,4		E	TIX	F2206640
		05057	Ŏ	02000	4	00001		TRA	1,4				F2206650
	A	05060	ŏ	00000	0	00000	LIST40	HTR			Ε	EXIT SSO (E1) SSO X QUANTITIES C(ADD)=NRO OF WORDS	F2206660
	^	05061	õ	00000	ō	05063	LIST50	HTR	E1		Ĺ	.(E1)	F2206670
	A	05062	õ	00000	ō	00000	LIST60	HTR			Ε		F2206680
	^	0,002	•		•	••••			FOUR WORD E	NTRY BLOCK			F2206690
	A	05063	'n	00000	٥	00000	E1	HTR				•	F2206700
						00000	E2	HTR					F2206710
	Ą	05065				00000	F3	HTR					F2206720
	Ā					00000		HTR					F2206730
	A									RDS. C(DEC)	= INDE	X QUANTITIES, C(ADD)=NR. OF WORDS	•F2206740
		AEA/7	^	00005	^	00002	TSYCOM	HTR	2.0.5	ACC KEY	WORD	WHEN TSX TO LIST.	F2206750
		05067	Ŏ	00000	v	00002	TRACTO	HTD	2.0.4	(ADD DOF	ES NOT	INCL CHECK SUM)	F2206760
		05070	v	00004	0	00003	NAMPEY	HTD	2.0.2	1700 000	-0	WHEN TSX TO LIST. INCL CHECK SUM)	F2206770
		05071	. 0	00003	Ō	00002	CHATAC	TITO	2.0.2				F2206780
		05072	0.	00002	0	00002	CHATAG	HIK	4,0,1	(ADTAG)			F2206790
			-						ETVE HODDS /	CONTATATAC	CHIDDE	MIT TABLE ADDRESSES IN ADD. DADT.	E2206800
			_		_				FIVE WORDS	TEVEN	CURRE	N OF LANGIN - LACT DIES 1	F2206000
	A	05074	0	00000	0	00000	LADDS	HIK		TOACOM	- AU	D OF EADDIN - LAST PLUS I	F2206010
	A	05075	0	00000	0	00000		HIR		IKASIO		C(DEC)=LAST TABLE LOC. PLUS ONE	F2200020
	A	05076	0	00000	,0	00000		HTR		NAMKEY			F2206830
	Α	05077	0	00000	0	00000		HTR		CHATAG			F2206840
	A	05100	0	00000	0	00000		HTR		DRMTAG			F2206850
									FIVE WORDS,	C(ADD)=ORI	IGIN,	C(DEC)=LAST TABLE LOC+ PLUS ONE	F2206860
		05101	0	01756	0	01302	LADDIN	HTR	706,0,1006		· 1.	SXCOM	F2206870
		05102	0	01300	0	00460		HTR	304,0,704		T	RASTO	F2206880
		05103	0	02662	0	01760		HTR	1008,0,1458		N.	AMKEY	F2206890
	•	05104	0	00456	0	00002		HTR	2,0,302		C	HATAG	F2206900
		05105	0	03650	0	02664		HTR	1460,0,1960		D	RMTAG	F2206910
		05106	-0	63400	4	05122	BRANCH	SXD	BRA45,4		1	F THERE ARE RELCONS	F2206920
		05107	0	50000	0	03725		CLA	NRRC		()	NOT DORC) IN THE SC.	F2206930
		05110	0	10000	0	05112		TZE	BRA10		U	SE	F2206940
		05111	ŏ	07400	4	05534		TSX	RELCON 4		R	ELCON.	F2206950
		05112	-0	53400	1	03726	BRA10	LXD	NRDS+1		Ţi	HIS ROUTINE	F2206960
		05113	3	00001	1	05116		TXH	BRA30,1,1		C	ONDENSES	F2206970
		05114	ō	07400	4	06075	BRA20	TSX	1NS00+4		DI	UPLICATE	F2206980
		05115	ŏ	02000	0	05136		TRA	BRA90		SI	UBSCRIPTS	F2206990
		05116	3	00000	1	05123	BRA30	TXH	BRA50 • 1 • 2		Al	ND .	F2207000
		05110	á	600002	â	03734		CLA	DUPES		Ti	RANSFERS	F2207010
		05120	_^	10000	0	05114		TNZ	BRA20		TO	0	F2207020
		05120	-0	07600	1.	06147	BRAAD	TSX	2NS00+4		R	OUTINES	F2207030
	_	05121	- 3	00000	4	05134	BDA45	TYI	BRA90.0		11	NS00 • 2NS00 • 3NS00	F2207040
	D	05122	-3	50000	6	02120	DDASO	IVE	DUPESAL		Δí	C(DEC)=LAST TABLE LOC. PLUS ONE SXCOM RASTO AMKEY HATAG RMTAG F THERE ARE RELCONS NOT DORC) IN THE SC, SE ELCON. HIS ROUTINE ODDENSES UPLICATE UBSCRIPTS ND RANSFERS O OUTINES NSOO, 2NSOO, 3NSOO FTER ROCESSING, ETURN S TO	F2207050
		05123	-0	23400	4	05134	BRAJU	TVU	BDA20.4.6		Di	ROCESSING.	F2207060
		05124	3	00006	4	05114		TVI	DRM203450		Di FI	FTIIRN	F2207070
		05125	-3	00000	4	05135		TVU	DRA60.4.5		1.0	s to	F2207080
		05126	3	00005	4	05132		IXH	DKAOU 9497		13	3 10	, EZV 1000

		DOMENT OD	F2207090
05127 -3 00003 4 05132	TXL BRA60+4+3	DRMENT OR	F2207100
05130 0 50000 0 03754	CLA L(3)	TAG00	
05131 0 02000 0 05133	TRA BRA70	•	F2207110
05132 0 50000 0 03756 BRA60	CLA L(5)		F2207120
05133 0 60100 0 03731 BRA70	STO DOSUBS		F2207130
05134 0 02000 0 05121	TRA BRA40		F2207140
05154 0 02000 0 05121			F2207150
05135 0 07400 4 06246 BRA80	13A 3R30074		F2207160
05136 -0 53400 4 05122 BRA90	EAU DRA4D\$4	•	F2207170
05137 0 02000 4 00001	IKA 194	CAVE LINVAGE	F2207180
05140 -0 63400 4 05204 RSR	5XD R5R20+4	SAVE LINKAGE	F2207190
05141 -0 63400 1 05205	SXD RSR30+1	SAVE INDEX	F2207200
05142 0 50000 1 00741	CLA DOTAGZ+6,1	HAS COUNTER AUJUSTMENT	F2207200
05143 -0 32000 0 04003	ANA BIT18	INSTRUCTION BEEN ENTERED.	F2207210
05144 -0 10000 0 05164	TNZ RSR10	IF SO, GO TO RSR10	F2207220
05145 0 50000 0 04003	CLA BIT18	IF NOT, ENTER IN	F2207230
05146 -0 60200 1 00741	ORS DOTAGZ+6+1	TRASTO AN ENTRY TO CAUSE	F2207240
05147 0 50000 1 00733	CLA DOTAGZ +1	THE COUNTER TO BE	F2207250
05147 0 50000 1 00755	SCM		F2207260
05150 -0 76000 0 00003	CTO E1	DECREASED BY NI. WHICH	F2207270
05151 0 60100 0 05063	SIQ EI	WILL MAKE IT LISEFILL AS	F2207280
05152 0 50000 1 00740	CLA DOTAGZ+391	AC A DESET SUR. COMP.	F2207290
05153 -0 32000 0 03772	ANA DECMSK	AS A RESEL SOUP COMPA	F2207300
05154 0 77100 0 00022	ARS 18 STO E2 CLA DOTAGZ+8+1	SAVE LINKAGE SAVE INDEX HAS COUNTER ADJUSTMENT INSTRUCTION BEEN ENTERED. IF SO, GO TO RSR10 IF NOT, ENTER IN TRASTO AN ENTRY TO CAUSE THE COUNTER TO BE DECREASED BY N1, WHICH WILL MAKE IT USEFUL AS AS A RESET SUB. COMB.	F2207310
83133 0 00100 0 03004	STO E2		F2207320
05156 0 50000 1 00743	CLA DOTAGZ+8+1		E000 T000
05157 -0 32000 0 03772	ANA DECMSK		F2207330
05160 -0 50100 1 00735	ORA DOTAGZ+2+1		F2207340
AS141 0 60100 0 05065	310 63		F2207350
05162 0 50000 0 05070	CLA TRASTO		F2207360
05162 0 07400 4 05025	TSX LIST.4		F2207370
05144 -0 53400 1 05205 PSR10	LXD RSR30+1	ENTER IN TRASTO	F2207380
05164 -0 55400 1 05205 KSK10	CLA DOTAG7+8+1	AN ENTRY TO CAUSE	F2207390
05165 0 50000 1 00745	ANA DECMSK	THE TAG UNDER	F2207400
05166 -0 52000 0 03772	OPA TS	ENTER IN TRASTO AN ENTRY TO CAUSE THE TAG UNDER CONSIDERATION TO BE RESET BY THE ADJUSTED COUNTER AT THE PROPER TIMES.	F2207410
05167 -0 50100 0 05701	CCM 15		F2207420
05170 -0 76000 0 00003	550 53	TO BE RESET	F2207430
05171 0 60100 0 05065	510 63	DY THE AD HISTED	F2207440
05172 0 50000 0 03741	CLA ILZ	COUNTED AT THE	F2207450
05173 0 77100 0 00022	ARS 18	COUNTER AT THE	F2207460
05174 -0 50100 0 03740	ORA TL1	PROPER TIMES.	F2207400
05175 0 60100 0 05064	STO E2		F2207470
05176 0 50000 1 00733	CLA DOTAGZ +1		F2207480
05177 0 60100 0 05063	STO E1		F2207490
05200 0 50000 0 05070	CLA TRASTO		F2207500
05201 0 07400 4 05025	TSX LIST 4		F2207510
05201 0 07400 4 05005	LXD R5R20+4	•	F2207520
05202 -0 53400 4 05204	TRA 1.4		F2207530
05203 0 02000 4 00001	uTD		F2207540
05204 U 00000 U 00000 RSR20	HTD.	·	F2207550
05205 0 00000 0 00000 RSR30	F EVD DDMO5.4	THIS ROUTINE	F2207560
05206 -0 63400 4 05212 DRMEN	SAU UNIVERS	PPOCESSES THE	F2207570
05207 -0 53400 2 04006	LAU AUTAA92	ADDED TAG TARIF	F2207580
05210 -0 63400 2 05241	SXD DRM20.2	ADDED ING INDLE	F2207590
05211 0 53400 2 04006	LXA ADTXX+2		F2207600
05212 -3 00000 0 05241 DRM05	TXL DRM20.0	THIS ROUTINE PROCESSES THE ADDED TAG TABLE OBTAIN FIRST ENTRY WORD. PUT INDEX IN XRA.	F2207610
05213 0 50000 2 07135 DRM10	CLA ADTAGZ • 2	OBTAIN FIRST ENTRY WORD.	F2207610
05214 -0 73400 1 00000	PDX 0,1	PUT INDEX IN XRA.	F2207620
			

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F2207630
                                                                                 STORE TAG
                                         ANA ADDMSK
 05215 -0 32000 0 03773
                                                                                                                                 F2207640
                                                                                 IN TAG
                                         STO TAG
 05216 0 60100 0 03700
                                                                                                                                 F2207650
                                                                                 AND TS
                                        STO TS
                                                                                 PUT INDEX
 05217 0 60100 0 03701
                                                                                                                                F2207660
                                       PXD 0,1
STO XC
SXD DRM30,2
CLA ADTAGZ+1,2
TMI DRM40
STO TS
TSX DOINFO,4
TSX SUBCOM,4
                                         PXD 0+1
05220 -0 75400 1 00000

05221 0 60100 0 03674

05222 -0 63400 2 05244

05223 0 50000 2 07136

05224 -0 12000 0 05245

05225 0 60100 0 03701

05226 0 07400 4 04363

05227 0 07400 4 04520

05230 0 76100 0 00000

05231 0 07400 4 05566

05232 0 07400 4 05106

05233 0 07400 4 05106

05234 0 07400 4 04614

05235 0 50000 0 05073

05236 0 07400 4 05025

05237 -0 53400 2 05244 DRM15
 05220 -0 75400 1 00000
                                                                                                                                F2207670
                                                                                 IN XC
                                                                                 SAVE INDEX B.
                                                                                                                                F2207680
                                                                                 OBTAIN WORD TWO.
                                                                                                                           F2207690
                                                                                                                               F2207700
                                                                                 TRA IF RESET ENTRY.
                                                                                 SAVE NAME IN TS.
                                                                                                                                F2207710
                                                                                                                                F2207720
                                                                                 USE DOINFO
                                                                                 AND
                                                                                                                                F2207730
                                                                                                                                F2207745
                                                                 OTHER
                                         NOP
                                                                                 ROUTINES
                                                                                                                                F2207750
                                         TSX IDENT 4
                                                                                             (ERROR. GO TO DIAGNOSTIC.)F2207765
                                        TSX DIAG+4 IN ORDER TO
                                                                                 PROCESS
                                                                                                                              F2207770
                                        TSX BRANCH 4
F2207780
                                                                                 ENTRY.
                                                                                                                                F2207790
                                                                                 ENTER RESULT IN DRMTAG.
                                                                                                                                F2207800
                                                                                                                                F2207810
                                         TXI DRM20+2+-2
TXH DRM10+2
                                                                                                                                F2207820
                                                                                                                                F2207830
 05241 3 00000 2 05213 DRM20 TXH DRM10+2
                                                                                                                                F2207840
                                         LXD DRM05.4
 05242 -0 53400 4 05212
                                                                                                                                F2207850
TRA 194
                                                                                                                                F2207860
                                                                                                                                F2207870
                                                                                                                                F2207880
                                                                                                                                F2207890
05247 0 60100 0 03740 STO TL1

05250 -0 75400 4 00000 PXD 0+4

05251 0 60100 0 03741 STO TL2

05252 0 07400 4 05140 TSX RSR+4

05253 0 02000 0 05237 TRA DRM15

SUBROL
                                                                                                                                F2207900
                                                                                                                                F2207910
                                                                                                                                F2207920
                                                                                                                                F2207930
                                                                               TRA FOR NEXT ENTRY.
                                                                                                                                F2207940
                                              SUBROUTINE TAGADD
 05254 3 00000 2 05256 TAGADD TXH TAGAD1,2,0 C(IRB) EQ 1 IF NORMAL ADTAG
                                                                                                                                F2207950
                                                                                                                                F2207960
 05255 -0 75400 1 00000 PXD 0,1
05256 -0 53400 1 04006 TAGAD1 LXD ADTXX;1
05257 -3 00000 1 05273 TXL TAGAD6;1;0
05260 3 00000 2 05274 TXH TAGAD8;2;0 XRB=1;NORMAL ADDED TAG
05261 0 40000 0 03700 ADD TAG
05262 0 60100 1 07135 STO ADTAGZ;1
05263 0 50000 0 03673 CLA NEWTAG
05264 0 56000 0 03673 LDQ NEWTAG
05265 0 60100 1 07136 STO ADTAGZ+1;1
05266 0 40000 0 03765 ADD L(1)A
05267 0 60100 0 03673 STO NEWTAG
05267 0 60100 0 03673 STO NEWTAG
05270 1 77776 1 05271 TXI TAGAD2;1;-2
05271 -0 63400 1 04006 TAGAD2 SXD ADTXX;1
 05256 -0 53400 1 04006 TAGAD1 LXD ADTXX:1
                                                                                                                                F2207970
                                                                                                                                F2207980
                                                                                                                                F2207990
                                                                                                                                F2208000
                                                                                                                                F2208010
                                                                                                                               F2208020
                                                                                                                               F2208030
                                                                                                                               F2208040
                                                                                                                               F2208050
                                                                                                                               F2208060
                                                                                                                               F2208070
                                                                                                                               F2208080
 05271 -0 63400 1 04006 TAGAD2 SXD ADTXX:1
 05272 0 02000 4 00001 TAGAD3 TRA 1:4
 05273 0 07400 4 00004 TAGAD6 TSX DIAG,4 TABLE WILL NOT HOLD ENTRY. ERROR. GO TO DIAGNOSTIC. F2208095
                                                                                                                               F2208110
 05274 0 60100 1 07135 TAGAD8 STO ADTAGZ,1
                                                                                                                               F2208120
 05275 -0 60000 1 07136 STQ ADTAGZ+1:1
                                                                                                                               F2208130
                                         TXI TAGAD2+1+-2
 05276 1 77776 1 05271
                                                                                                                               F2208140
                                           SUBROUTINE SPC000
 05277 -0 63400 1 05371 SPC000 SXD SPC115,1 SAVE INDEX OF DO TO BE SEARCHED.
SXD SPC060.2 SAVE TINFOR, LIST INDICATOR
                                                                              SAVE INDEX OF DO TO BE SEARCHED. F2208150
                                                                                                                               F2208160
 05300 -0 63400 2 05344 SXD SPC060,2
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											50000170
		05301	-0	63400	4	05361		SXD	SPC105+4	SAVE TSX INDEX.	F2208170
		05302	0	60100	0	05410		STO	SPCKEY	SAVE LIST KET WORD	F2200100
		05303	0	50000	1	00740		CLA	DOTAGZ+5,1	OBIAIN L WORD	F2200170
		05304	0	62200	0	05321		STD	SPC050	INTITALIZE TEST INSTRO	F2200200
		05305	0	50000	1	00733		CLA	DOTAGZ • 1	OBIAIN ALPHADEIA WKU)	F2200210
		05306	0	73400	2	00000		PAX	0,2	SAVE BEIAS	F2200220
		05307	-0	32000	0	03772		ANA	DECMSK.	OBIAIN ALPHA ALONE	F2200230
		05310	0	60100	0	03744		STO	NEXTA	SIO IN NEXIA	F2200240
		05311	0	60100	0	03742		STO	A	AND STORE IN A	F2200250
		05312	-0	75400	2	00000		PXD	0,2	PUI BEIA IN LASIB AND	F2200200
		05313	0	60100	0	03745		STO	LASTB	BETING SEARCH FOR RZ	F2200210
		05314	-0	53400	1	05371	SPC010	LXD	SPC115•1	OBIAIN CURRENT INDEX AND	F2200200
		05315	1	77767	1	05316	SPC020	TXI	SPC040+1+-9	GO DOWN ONE DUTTE POSSIBLETELSE	F2208290
D		05316	-3	00000	.1	05362	SPC040	TXL	SPC110•1	GO TO SET UP LAST INTERVAL.	F2208300
_		05317	.0	50000	1	00740		CLA	DOTAGZ+5 1	TEST WHETHER OR NOT THIS DO	F2208310
		05320	-0	73400	2	00000		PDX	0,2	IS IN RANGE OF RI(DXL)	F2208320
D		05321	-3	00000	2	05362	SPC050	TXL	SPC110+2	IF NOT-EXIT FOR LAST INTERVAL.	F2208330
		05322	0	50000	1	00734		CLA	DOTAGZ+1:1	IF IN RISIS THIS DO TO BE	F2208340
		05323	0	40200	0	03735		SUB	RSYM1	SKIPPED. IF NOT. GO BACK TO	F2208350
		05324	0	10000	0	05330		TZE	SPC053	GET NEXT DO.	F2208360
		05325	0	50000	1	00734		CLA	DOTAGZ+1+1		F2208370
		05326	0	40200	0	03736		SUB	RSYM2		F2208380
		05327	-0	10000	0	05315		TNZ	SPC020	DE TOURS INDINGT TO CHIR THIS	F2208390
		05330	0	50000	1	00733	SPC053	CLA	DOTAGZ • 1	R2 FOUND ARRANGE TO SKIP THIS	F2208400
		05331	0	73400	2	00000		PAX	0,2	INTERVAL. USE ALPHA OF RZ	F2208410
		05332	-0	32000	0	03772		ANA	DECMSK	AS BOPUL BETA OF KZ IN	F2208420
		05333	0	60100	0	03743		STO	В	NEXIA+	F2208430
		05334	-0	75400	2	00000		PXD	0,2	DO FORMULAS WITHIN KZ AKE	F2200440
		05335	0	60100	0	03744		STO	NEXTA	ACCOUNTED FOR AFTER SEARCH	F2200430
		05336	-0	63400	1	05371		SXD	SPC115+1	SAVE INDEX OF RZO	F2200400
		05337	-0	53400	2	05344	SPC055	LXD	SPC060+2	PUI TINFOR, LIST IND. IN ARD	F2200410
		05340	0	50000	0	03742	SPC058	CLA	A	PUR .	F2200400
		05341	0	40200	0	03743		SUB	В	NON EMPIT	F2200470
		05342	0	10000	0	05345		TZE	SPC065	INTERVALS:	F2200500
		05343	-3	00001	2	05376		TXL	SPCTIN+2+1	GO TO ARRANGE TINFOR SEARCH) OR	E2200510
D		05344	-3	00000	0	05401	SPC060	TXL	SPCSTO.0	IKA 10 USE LISI.	F2200520
_		05345	-0	53400	2	05344	SPC065	LXD	SPC060•2	RETURN MEREFIEST TINFOR	F2208230
•	:	05346	-3	00000	2	05372		TXL	SPC120+2+0	LIST INDO IF ZERUS EXITO	F2208340
		05347	-0	53400	1	05371	SPC070	LXD	SPC115+1	10 SEI UP NEXI INTERVAL!	F2208990
		05350	0	50000	1	00740		CLA	DOTAGZ+5 • 1	OBJAIN INDEX OF LAST RZ AND	F2208200
		05351	0	62200	0	05356		STD	SPC100	STEP DOWN IN DOTAG BY USUAL	F2206510
		05352	1	77767	1	05353	SPC080	TXI	SPC090:1:-9	PROCEDURE UNTIL SOME DU 15	F2208580
Đ		05353	-3	00000	1	05362	SPC090	TXL	SPC110.1	FOUND NOT IN RZOOK UNTIL	F2208590
•		05354	0	50000	1	00740		CLA	DOTAGZ+5,1	DOTAG EXHAUSTED IF DO FOUND	F2200000
		05355	-0	73400	2	00000		PDX	0.2	NOT IN RESEL A AND GO TO TEST	F2208610
D		05356	3	00000	2	05352	SPC100	TXH	SPC080•2	IF IMIS DO IS IN KIA	F2200020
•		05357	0	50000	0	03744		CLA	NEXTA	IF II IS NEWRY WILL BE FOUND	F2208030
		05360	0	60100	0	03742		STO	A	OR EXIT MADE TO SPCIID	F220040
Đ		05361	-3	00000	0	05321	SPC105	TXL	SPC050+0	THE 10 CETHD FOR 1 ACT	F220803U
		05362	0	50000	0	03744	SPC110	CLA	NEXTA	IMIS IS SETUP FOR LAST	F2200000
		05363	0	60100	0	03742		\$TO	A	INIERVALO POR ASUSE	F220010
		05364	0	50000	0	03745		CLA	LASTB	CUNIENTS OF NEXTA FOR BY	F2208680
		05365	0	60100	0	03743		STO	В	USE BETA OF KISTOUND IN	F2208690
		05366	-0	53400	2	05344		LXD	SPC060,2	SAVE TSX INDEX. SAVE LIST KEY WORD OBTAIN L WORD INITIALIZE TEST INSTR. OBTAIN ALPHABETA WRD; SAVE BETA, OBTAIN ALPHA ALONE STO IN NEXTA AND STORE IN A. PUT BETA IN LASTB AND BETING SEARCH FOR R2 OBTAIN CURRENT INDEX AND GO DOWN ONE DO, IF POSSIBLE, ELSE GO TO SET UP LAST INTERVAL. TEST WHETHER OR NOT THIS DO IS IN RANGE OF R1(DXL) IF NOT, EXIT FOR LAST INTERVAL. IF IN R1, IS THIS DO TO BE SKIPPED. IF NOT, GO BACK TO GET NEXT DO. R2 FOUND, ARRANGE TO SKIP THIS INTERVAL. USE ALPHA OF R2 AS B, PUT BETA OF R2 IN NEXTA. DO FORMULAS WITHIN R2 ARE ACCOUNTED FOR AFTER SEARCH. SAVE INDEX OF R2. PUT TINFOR, LIST IND. IN XRB FOR NON EMPTY INTERVALS, GO TO ARRANGE TINFOR SEARCH, OR TRA TO USE LIST. RETURN HERE, TEST TINFOR LIST IND. IF ZERO, EXIT. TO SET UP NEXT INTERVAL, OBTAIN INDEX OF LAST R2 AND STEP DOWN IN DOTAG BY USUAL PROCEDURE UNTIL SOME DO IS FOUND NOT IN R2, OR UNTIL DOTAG EXHAUSTED. IF DO FOUND NOT IN R2, SET A AND GO TO TEST IF THIS DO IS IN R1. IF IT IS, NEWR2 WILL BE FOUND OR EXIT MADE TO SPCIIO. THIS IS SETUP FOR LAST INTERVAL. FOR A, USE CONTENTS OF NEXTA. FOR B, USE BETA OF R1, FOUND IN LASTB. OBTAIN TINFOR, STOTAG	F 2 2 U 8 / U U

	05367 0	50000	0	03751		CLA	L(0)	IND, AND SET LOCATION OF INDICATOR TO ZERO. GO TO TINFOR OR TRASTO. EXIT, ALL STORES DONE, OR, SEARCH MADE, T NOT FOUND. EXIT, T FOUND IN SOME INTERVAL GO TO SEARCH FORTAG I FOUND T NOT FOUND FOR TRASTO, EZ AND E3 ARE ALREADY SET UP. COLLECT A AND B INTO E1 WORD, PUT TRASTO INDICATOR IN ACC. AND TSX TO LISTING ROUTINE. ON RETURN, GO TO TEST FINISH. STORAGE FOR TABLEKEY TINFOR AND TINFXX C(XRA) = INDEX OF DR TO BE SEARCHED. SEPARATE ALPHA AND BETA AND STORE IN A B PUT MAX FORTAG INDEX IN XRA OBTAIN FORTAG ENTRY RETAIN FORMULA NUMBER ONLY COMPARE ALPHA AND FORMULA NR. FOR. NR. GREATER THAN ALPHA. TRA. C(A) MAY BE SOME BETA FROM SPC FOR.NR. LESS THAN ALPHA. GO BACK FOR NEXT FORTAG ENTRY IF POSSIBLE. OTHERWISE, RETURN TO CALLING INSTR PLUS TWO. COMPARE FOR. NR. WITH BETA FOR. NR. GREATER THAN BETA, EXIT. FOR. NR. EQUAL TO OR LESS THAN BETA, OBTAIN FORTAG TAG AND COMPARE WITH SEARCH TAG. I.F. NOT EQUAL, GO BACK FOR NEXT TAG IF EQUAL, RETURN TO CALLING ONE. XRA CONTAINS INDEX IN FORTAG OF FIRST TAG TRAWRD	F2208710
	05370 0	62200	0	05344		STD	SPC060	INDICATOR TO ZERO. GO TO	F2208720
D	05371 -3	-00000	0	05340	SPC115	TXL	SPC058 • 0	TINFOR OR TRASTO	F2208730
	05372 -0	53400	4	05361	SPC120	LXD	SPC105•4	EXITALL STORES DONE FOR	F2208740
	05373 0	02000	4	00001		TRA	1,4	SEARCH MADE & I NOT FOUND	F2208750
	05374 -0	53400	4	05361	SPC130	LXD	SPC105+4	EXIII FOUND	F2208760
	05375 0	02000	4	00002		TRA	2,4	IN SOME INTERVAL	F2208770
	05376 0	07400	4	05417	SPCTIN	TSX	TINFXX • 4	GO TO SEARCH FORTAG	F2208780
	05377 0	02000	0	05374		TRA	SPC130	I FOUND	F2200190
	05400 0	02000	0	05345		TRA	SPC065	I NOT FOUND	F2200000
	05401 0	50000	0	03743	SPCSTO	CLA	В	ALDEADY CET UP. COLLECT	E2200010
	0 5402 0	77100	0	00022		ARS	18	A AND D INTO EL WODD.	F2200020
	05403 0	40000	0	03742		ADD	A .	DIST TRACTO INDICATOR IN	F2208840
	05404 0	60100	0	05063		510	EI	ACC. AND	F2208850
	05405 0	50000	0	05410		CLA	SPERET	TEY TO LISTING POUTINE	F2208860
	05406 0	07400	4	05025		153	L15194	ON PETUPNAGO TO TEST FINISHA	F2208870
	05407 0	02000	0	05345	606KEX	IKA	SPC069	STOPAGE FOR TARIFYEY	F2208880
A	05410 0	00000	0	00000	SPCKET	HIK	CUDDONITTNE	TINEOD AND TINEYY	F2208890
				00700	TIMEOR	C1 A	DOTAGE 1	C(XRA)=INDEX OF DR TO BE	F2208900
	05411 0	50000	Ţ	00733	IINFOR	CLA	0-1	SEARCHED. SEPARATE ALPHA	F2208910
	05412 0	73400	1	00000		ANA	DECMEN	AND RETA	F2208920
	05413 -0	32000	0	03112		STO	DECMOR	AND STORE IN A	F2208930
	05414 0	60100	0	03142		310	0.1	Has Stone In A	F2208940
	05415 -0	75400	Ţ	00000		570	0 9 1	A	F2208950
	05416 0	60100	0	03743	TIMEYY	210	L (1500 a 1	PUT MAX FORTAG INDEX IN XRA	F2208960
	05417 -0	53400	1	02104	TINEIO		EOPT7.1	OBTAIN FORTAG ENTRY	F2208970
	05420 0	22000	7	03010	1111110	ANA	DECMSK	RETAIN FORMULA NUMBER ONLY	F2208980
	05421 -0	34000	٥	027/2		CAS	A	COMPARE ALPHA AND FORMULA NR.	F2208990
	05422 0	24000	٥	05/42		TPA	TINEAO	FOR. NR. GREATER THAN ALPHA. TRA.	F2209000
	05423 0	74100	0	00000		NOP	12101 40	C(A) MAY BE SOME BETA FROM SPC	F2209010
	05424 0	77777	1	05626	TINEZO	TYI	TINE 30 - 1 1	FOR NR. LESS THAN ALPHA. GO	F2209020
	U2427 I	****	•	05420	11111 20	,,,	11 50717	BACK FOR NEXT FORTAG ENTRY	F2209030
	05426 3	00000	1	05420	TINE30	TXH	TINF10.1	IF POSSIBLE. OTHERWISE.	F2209040
D	05420 3	02000	7	00002	1111.50	TRA	2.4	RETURN TO CALLING INSTR PLUS TWO.	F2209050
	05420 0	34000	0	03743	TINE40	CAS	В	COMPARE FOR. NR. WITH BETA	F2209060
	05430 0	02000	4	00143	7 2111 10	TRA	2 • 4	FOR. NR. GREATER THAN BETA, EXIT.	F2209070
•	05431 0	76100	0	00002		NOP		FOR. NR. EQUAL TO OR	F2209080
	05432 0	50000	1	03670		CLA	FORTZ+1	LESS THAN BETA, OBTAIN FORTAG	F2209090
	05434 0	12000	ô	05425		TPL	TINF20	TAG AND COMPARE WITH SEARCH TAG.	F2209100
	05435 -0	32000	Õ	03773		ANA	ADDMSK	I.F. NOT EQUAL, GO BACK FOR NEXT TAG	F2209110
	05436 0	40200	Ô	03700		SUB	TAG		F2209120
	05437 -0	10000	ñ	05425		TNZ	TINF20	IF EQUAL, RETURN TO CALLING	F2209130
	05440 0	02000	4	00001		TRA	1.4	i i	F2209140
	02440	•=••	٠.				INSTR PLUS	ONE. XRA CONTAINS INDEX IN FORTAG OF FIRST TAG	F2209150
							FOUND		F2209160
							SUBROUTINE	TRAWRD	F2209170
	05441 -0	63400	4	05470	TRAWRD	SXD	TRAW65,4		F2209180
	05441 -0	50000	0	03751		CLA	L(0)	•	F2209190
	05443 0	60100	õ	03747		STO	TRABIT	1	2209200
	05444 0	50000	1	00740		CLA	DOTAGZ+5.1	in the second of	2209210
	05445 0	62200	ô	05454		STD	TRAW30	OBTAIN T2 WORD OR INTO TRABIT	2209220
	05446 0	50000	ī	00742	TRAW10	CLA	DOTAGZ+7:1	OBTAIN T2 WORD	2209230
	05447 -0	60200	ō	03747		ORS	TRABIT	OR INTO TRABIT	2209240
	#2441 V		-						

													E2200260
	05450	1	77767	1	05451		TXI	TRAW20+1+-9				TAKE NEXT DO IT. (DEC HAS DOTAG IX) OBTAIN L WORD PUT L IN XRC. EXIT IF DO IS NOT IN RANGE R1 IF COMPLETE TEST, GO BACK IF INCOMPLETE TEST, IS THIS A DO TO BE SKIPPED IF NOT, GO BACK THIS DO IS TO BE SKIPPED PUT LEVEL OF THIS DO IN TEST INSTITAKE NEXT DO IF ANY T. OTHERWISE, (DEC HAS DOTAG IX) OBTAIN L WORD PUT L IN XRC IF DO IS IN RANGE OF R2, GO BACK. OTHERWISE, GO TO TRAW30 OBTAIN 36 IN DECREMENT 36-TL2 IN ADDRESS INITIALIZE SHIFT OBTAIN TL2 TL2-TL1 IN ADDRESS INITIALIZE SHIFT ACC CONTAINS ZERO MQ CONTAINS ALL ONES PUT TL2-TL1 ONES IN ACC POSITION ONES IN ACC POSITION ONES IN ACC AND IN TRANSFER BITS GO BACK TO CALLING INSTR PLUS ONE. TAPE THIS ROUTINE ENTERS ONE ENTRY IN TAGZ,	F2209250
Ð	05451 -	3	00000	1	05471	TRAW20	TXL	TRAW70+1	15	NONE ,	FXI	IT. (DEC HAS DOTAG TX)	F2207200
	05452	0	50000	٠1	00740		CLA	DOTAGZ+5 1				OBTAIN L WORD	F2209210
	05453 -	0	73400	4	00000		PDX	0,4				PUT L IN XRC.	F2209280
D	05454 -	3	00000	4	05471	TRAW30	TXL	TRAW70,4				EXIT IF DO IS NOT IN RANGE RI	F2209290
_	05455 -	3	00001	2	05446		TXL	TRAW10:2:1				IF COMPLETE TEST, GO BACK	F2209300
	05456	O	50000	1	00734	TRAW35	CLA	DOTAGZ+1,1				IF INCOMPLETE TEST, IS THIS A	F2209310
	05457	õ	40200	Õ	03736		SUB	RSYM2				DO TO BE SKIPPED	F2209320
	05460 -	ñ	10000	ŏ	05446		TNZ	TRAW10				IF NOT, GO BACK	F2209330
	05461	ň	50000	ĭ	00740		CLA	DOTAGZ+5 • 1				THIS DO IS TO BE SKIPPED	F2209340
	05461	ň	62200	â	05467		SID	TRAW60				PUT LEVEL OF THIS DO IN TEST INSTE	•F2209350
	05462	•	77767	ĭ	05464	TDAWAN	TYI	TRAW50+1+-9				TAKE NEXT DO IF ANY	F2209360
_	05463	Ť	11101	•	05404	TOAWEO	TVI	TDAW70+1	1F 1	NOT.	FYII	T. OTHERWISE. (DEC HAS DOTAG IX)	F2209370
D	05464 -	2	00000		007/0	IKANJO		DOTAG7+5-1		1017		ORTAIN I WORD	F2209380
	05465	ũ	50000	•	00740		CLA	O. A				DIST I IN YOU	F2209390
_	05466 -	Ü	73400	4.	00000	T04440	TVI	TD 44460 . 6				TE DO IS IN PANCE OF PRACKA	F2209400
D	05467	3	00000	4	05463	TRAWOU	IXH	TRAWAUSA				OTHERWISE OF TO TRANSP	F2209410
D	05470 -	3	00000	Ō	05454	IRAWOS	IXL	TRAWADOO				OTHERNISCION TO TRANSO	F2209420
	05471 -	0	53400	4	05470	TRAW /O	LXD	TRAW6594				COTAIN OF IN DECREMENT	F2200420
	05472	0	50000	0	03761		CLA	L(36)				OBIAIN 36 IN DECREMENT	F2209430
-	05473	0	40200	0	03741		SUB	TL2				36-112	F2207440
	05474	0	77100	0	00022		ARS	18				IN ADDRESS	F2207430
	05475	0	62100	0	05505		STA	TRAW90				INITIALIZE SHIFE	F2209400
	05476	0	50000	0	03741		CLA	TL2				OBIAIN ILZ	F2209410
	05477	0	40200	0	03740		SUB	TL1				TL2-TLI	F2209400
	05500	0	77100	0	00022		ARS	18				IN ADDRESS	F2209490
	05501	0	62100	0	05504		STA	TRAW80				INITIALIZE SHIFT	F2209500
	05502	0	50000	0	03751		CLA	L(0)				ACC CONTAINS ZERO	F2209519
	05503	0	56000	0	03771		LDQ	35ONES				MQ CONTAINS ALL ONES	F2209520
A	05504	0	76300	0	00000	TRAW80	LLS					PUT TL2-TLI ONES IN ACC	F2209530
A	05505	0	76700	0	00000	TRAW90	ALS					POSITION ONES IN ACC	F2209540
	05506 -	0	32000	0	03747		ANA	TRABIT				AND IN TRANSFER BITS	F2209550
	05507	0	02000	4	00001		TRA	1,4				GO BACK TO CALLING INSTR PLUS ONE	F2209560
								SUBROUTINES	TAGEN	T AND	TET	TAPE	F2209570
	05510 -	0	53400	1	04010	TAGENT	LXD	TAGXX:1				THIS ROUTINE ENTERS	F2209580
	05511	3	00000	1	05513		TXH	TE10+1+0				ONE ENTRY IN TAGZ,	F2209590
	05512	0	07400	2	05522		TSX	TETAPE . 2				IF POSSIBLE. IF NOT.	F2209600
	05513 -	0	53400	2	03755	TE10	LXD	L(4) +2				TRA TO TETAPE.	F2209610
	05514	٥	50000	2	05067	TE20	CLA	E1+4+2					F2209620
	05515	ō	60100	ī	06771		STO	TAGZ +1					F2209630
	05516	ī	77777	ī	05517		TXI	TE30+1+-1					F2209640
	05517	2	00001	2	05514	TE30	TIX	TE20,2,1					F2209650
	05520 -	ō	63400	1	04010	,	SXD	TAGXX,1					F2209660
	05521	ō	02000	4	00001		TRA	1.4					F2209670
	05522	ň	76600	'n	00224	TETAPE	WRS	ATAPE				THIS ROUTINE	F2209680
	05522	ň	53400	ĭ	04010		LXD	TAGXX • 1				ENTERS ALL THE VALID	F2209690
	05525 -	ñ	63400	î	05530		SXD	TE50.1				ENTRIES IN TAGZ ON	F2209700
	05524 7	č	52400	;	04010		LXA	TAGXX • 1				THE TAPE	F2209710
	U7727	Š	70000	,	04010	TEAD	CPY	TAGZAI				THE LAST ENTRY ON TAPE	F2209720
	0226	7	77777	,	06630	1270	TYT	TF50+1+-1				AFTER EACH NEST IS	F2209730
:	05527	ī	11111	1	05550	TEEO	TYL	TE4041				AN ENTRY OF 4 WDS OF 35 ONES	F2209740
D	05530	2	00000	+	00010	1690	IAU	TAGYYAI					F2209750
	05531	Ŏ	23400	1	04010		EXD	TAGYYAI				THIS ROUTINE ENTERS ONE ENTRY IN TAGZ, IF POSSIBLE. IF NOT, TRA TO TETAPE. THIS ROUTINE ENTERS ALL THE VALID ENTRIES IN TAGZ ON THE TAPE THE LAST ENTRY ON TAPE AFTER EACH NEST IS AN ENTRY OF 4 WDS OF 35 ONES	F2209760
	05532 -	Ö	03400	Ţ	04010		TDA	1.2					F2209770
	05533	U	02000	2	00001		IKA	DOUTING DELC	ON D14	NCDON/	.c 1	INSTRUCTIONS	F2209780
								KOOLINE KEEC	ON PIR	NOPON	93 I	THO TRUCTIONS	. 2207100

									•			
	05534	-0	53400	2	03753	RELCON	LXD	L(2),2			INITIALIZE SWITCH ERROR COUNTER. PUT NR OF DRM WDS IN XRA LOCATE DRUM ADDRESS LOCATE PROPER DRM ADDRESS READ STATE B, OR A, INTO STORAGE LOAD XRA WITH NR OF DRM WDS COMPUTE CHECK SUM AND COMPARE. IF NOT ZERO; GO TO ERROR ROUTINE. IF STATE A, RETURN TO BRANCH. AND TRA TO REL ROUTINE GO TO READ IN STATE A. COUNT IN ERROR COUNTER AND RETURN ERROR. GO TO DIAGNOSTIC. E.S. STATE B, RELCON	F2209790
	05535	-0	53400	4	03756	REL10	LXD	L(5),4	INITIAL	IZE	ERROR COUNTERS	F 2 2 0 9 8 0 9
	05536	-0	53400	1	05565	REL20	LXD	RELWDS + 1			PUT NR OF DRM WUS IN XRA	F2209810
	05537	0	76200	0	00301		RDS	PPDRM			LOCATE DRUM ADDRESS	F2209820
	05540	0	46000	2	05566		LDA	RELDRA+2,2			LOCATE PROPER DRM ADDRESS	F 2209830
	05541	0	70000	1	06566	REL30	CPY	CORESZ • 1			READ STATE B. OR A. INTO	F2209840
	05542	2	00001	1	05541		XIT	REL30.1.1			STORAGE	F2209850
	05543	-0	53400	1	05565		LXD	RELWDS • 1			LOAD XRA WITH NR OF DRM WDS	F2209860
	05544	-0	75400	0	00000		PXD	0.0			COMPUTE	F2209870
	05545	0	36100	1	06566	REL40	ACL	CORESZ • 1			CHECK	F2209880
	05546	2	00001	1	05545		TIX	REL40 • 1 • 1			SUM .	F2209890
	05547	0	60200	0	05561		SLW	REL80			AND	F 2209900
	05550	0	50000	0	05561		CLA	REL80			COMPARE.	F2209910
	05551	0	40200	2	05564		SUB	RELCS+2 • 2			IF NOT ZERO,	F2209920
	05552	-0	10000	0	05557		TNZ	REL70			GO TO ERROR ROUTINE.	F2209930
	05553	-3	00001	2	05112	REL50	TXL	BRA10,2,1			IF STATE A. RETURN TO BRANCH.	F2209940
)	05554	-3	00000	0	05566	REL60	TXL	CORES • 0			AND TRA TO REL ROUTINE	F2209950
	05555	-0	53400	2	03752	RELEND	LXD	L(1)+2			i	F2209960
	05556	Ō	02000	0	05535		TRA	REL10			GO TO READ IN STATE A.	F2209970
	05557	2	00001	4	05536	REL70	XIT	REL20,4,1			COUNT IN ERROR COUNTER AND RETURN	F2209980
	05560	ō	07400	4	00004		TSX	DIAG 4 DRUM	READ .		ERROR. GO TO DIAGNOSTIC.	F220 99 95
	05561	ŏ	00000	Ó	00000	REL80	HTR				E.S.	F2210000
•	05562	+10	30755	254	444	RELCS	OCT	103075525444	CHECK S	UM,	STATE B, RELCON	F2210014
	05563	-24	67446	43	200		OCT	-246744643200	CHECK S	UM S	TATE A, NORMAL	F2210024
	05564	+00	000000	010	000	RELDRA	OCT	1000			DRUM ADDRESS. STATE B.	F2210030
•	05565	+00	10000	000	000		OCT	1000000000			NR. WDS. DRUM ADDRESS STATE A.	F2210040
	0,,,,,	. • •			05566		ORG	2934			· ·	F2210050
					43344		• • • • • • • • • • • • • • • • • • • •	MASTER REC	ORD CARD	= F	N032	F2210055
	05566	-0	63400	4	05622	IDENT	SXD	ID075.4			SAVE INDEX	F2210060
	05567	-0	53400	1	03760		LXD	L(20) • 1			INITIALIZE IDENT STORAGE.	F2210070
	05570	0	50000	ñ	03751		CLA	L(0)			TO ZERO	F2210080
	05571	ň	60100	ň	06027		STO	IDES			. 1	F2210090
-	05572	ň	60100	ĭ	03740	10010	STO	X1+20 • 1			í	F2210100
	05572	2	00001	i	05572		TIX	ID010+1+1				F2210110
	05574	Õ	50000	ō	03771		CLA	35ONES			INITIALIZE	2210120
	05575	ŏ	60100	ñ	03723		STO	LL			LOW LEVEL	2210130
	05575	-0	53400	2	03751		LXD	L(0) •2			COUNT THE SUBSCRIPT	2210140
	05577	-0	53400	4	03756		LXD	L(5) •4			SYMBOLS.	2210150
	05511	-0	50000	7	03712	10020	CLA	S1+5.4			STORE COUNT IN	2210160
	05600	٥	10000	7	05603	10020	TZF	10030			NRSUBS. AND ALSO IN	2210170
	05601	1	00000	2	05603		TXI	10030 • 2 • 1			NRRC . WHICH IS THE	2210180
	05602	•	00001		05600	10030	TIX	10020.4.2			COUNT OF REL. CON.	2210190
	02003	- 4	75400	3	00000	10000	PYD	0.2			SUBSCRIPTS DO SUBS ARE	2210200
	05604	-0	40100	4	03725		STO	NRRC			SUBTRACTED OUT LATER.	2210210
	02602	Ö	60100	٥	03724		STO	NR SUBS			F	2210220
	05606	Ö	60100	٠	03124		1 40	VC-1			COMPARE EACH SYMBOL F	2210230
	05607	-0	53400	1	02675		- XD	1.0.2			IN THE SUBA COMBA WITH	2210240
	05610	-0	25400	4	00010		DCE	TI			COUNT IN ERROR COUNTER AND RETURN ERROR. GO TO DIAGNOSTIC. E.S. STATE B, RELCON TATE A, NORMAL DRUM ADDRESS, STATE B. NR. WDS, DRUM ADDRESS STATE A. NO32 SAVE INDEX INITIALIZE IDENT STORAGE. TO ZERO INITIALIZE LOW LEVEL COUNT THE SUBSCRIPT SYMBOLS. STORE COUNT IN NRSUBS, AND ALSO IN NRRC, WHICH IS THE COUNT OF REL. CON. SUBSCRIPTS. DO SUBS ARE SUBTRACTED OUT LATER. COMPARE EACH SYMBOL IN THE SUB. COMB. WITH THE SYMBOL OF EACH DO IN THE SUB NEST. WHEN EQUALITY IS FOUND, GO TO ID120. IF THE CURRENT DO SYMBOL IS NOT FOUND, MAKE EXIT FROM ID410	2210250
	05611	0	16000	0	00141	10050	CLA	DOTAG7+1-1			DO IN THE SUR NEST.	2210260
	05612	0	50000	Ţ	00/34	10050	LLA	UU AULTI 1			WHEN FOHALTTY IS	2210270
	05613	-0	53400	4	03/56	10040	LAU	C1+6.4			FOUNDA GO TO IDIZO	2210280
	05614	0	34000	4	03/12	10000	CAS	217294			TE THE CHOPENT DO	2210200
	05615	0	02000	0	05617		IKA	10070			EVMENT TO NOT FOUND.	2210270
	05616	0	02000	0	05632		IKA	10120			MAYE EVIT EDOM TO/10	2210210
	05617	2	00002	4	05614	ID070	IX	100609492			MAKE EXIL LKOW IDATO	2210310

										· · · · · · · · · · · · · · · · · · ·	
	05620 -	-0	76000	0	00141		MSE	TL		THESE INSTRUCTIONS FIND THE NEXT BACK SUB NEST DO FORMULA, AND RETURN CONTROL TO ID050. TURN OFF TEST LIGHT AND ESTABLISH INDEX AND LEVEL FOR THIS SUBSCRIPT. SUBTRACT ONE FROM NRRC. THIS WORD CONTAINS INITIALLY THE NUMBER OF SUBSCRIPTS IN THE COMBINATION. THIS - EDRECNO FN 265001 P463 ROUTINE FN265002 LOOKS FOR THE OUTERMOST DOTAG OF A SUBSCRIPT COMBINATION. RETURN	F2210320
	05621	0	02000	0	05623		TRA	ID080		·	F2210330
D	05622 -	-3	00000	0	06025	ID075	TXL	ID410+0		•	F2210340
	05623 -	-3	00001	2	05646	ID080	TXL	ID150,2,1		THESE INSTRUCTIONS	F2210350
	05624	1	00011	1	05625	ID090	TXI	ID100+1+9		FIND THE NEXT BACK	F2210360
	05625	0	50000	1	00740	ID100	CLA	DOTAGZ+5,1		SUB NEST DO FORMULA,	F2210370
	05626	0	62200	0	05627		STD	ID110		AND RETURN CONTROL	F2210380
D	05627 -	-3	00000	2	05624	ID110	TXL	ID090+2		TO ID050.	F2210390
	05630 -	-0	73400	2	00000		PDX	0,2			F2210400
	05631	Õ	02000	ō	05612		TRA	ID050			F2210410
	05632 -	-0	76000	ŏ	00141	ID120	MSE	TL		TURN OFF TEST LIGHT	F2210420
	05632	ñ	76100	ŏ	00000		NOP			AND	F2210430
	05634 -	٠ <u>٠</u>	75400	ĭ	00000		PXD	0.1	*	ESTABLISH	F2210440
	05635	ň	60100	Ž	03721		STO	X1+5+4		INDEX	F2210450
	05635	٠ <u>۸</u>	75400	2	00000		PXD	0.2		AND	F2210460
	05050 -	~	60100	7	03722		STO	11+5+4		LEVEL FOR THIS SUBSCRIPT.	F2210470
	05051	Ž	50100	7	03725		CLA	NPRC		SUBTRACT ONE FROM	F2210480
	05640	Ŏ.	*0300	×	02752		CLIE	ET11		NRRC THIS WORD	F2210490
	05641	Ŏ	40200	Š	02725		STO	NDDC		CONTAINS INITIALLY	F2210500
	05642	0	90100	~	05125		TZE	10150		THE NUMBER OF	F2210510
	05643	Ň	10000	ĭ	00040		CLA	DOTAG2+1+1		SUBSCRIPTS IN THE	F2210520
	95644	Ď	20000	Ť	00154		TDA	10070		COMBINATION	F2210530
	05645	Ŏ	02000	Ď	000333	10150	INA	10070		THIS - FORECNO EN 265001 P463	F2210540
	95646	Ď	76600	~	00333	10150	CLA	V1		ROUTINE FN265002	F2210550
	05647	Ď	50000	ŏ	03714		LDO	×2		LOOKS FOR THE	F2210560
	05650	Ď	56000	Ň	05453		TIO	A2 DTA41		OUTERMOST	F2210570
	05651	Ŏ	54000	0	02022		CLA	A3		DOTAG	F2210580
	05652	Ŏ	50000	0	03710	DT041	100	Y2		OF A	F2210590
	05653	0	56000	Ŏ	05/20	P1041	TLO	DIO42		SUBSCRIPT	F2210600
	05654	Ŏ	50000	Š	02020		CLA	Y2		COMBINATION	F2210610
	05655	ò	50000	Š	05140	DT042	STO	DT043			F2210620
	85656	Ŏ	00100	Ü	02767	F1042	310	1 (6) 4			F2210630
	05657	-ŭ	53400	4	0275/		LAD	L(3) •3			F2210640
	05660 -	-0	23400	2	05124		TDA	ID160		RETURN	F2210650
	05661	Ô	02000	Ď	00000	07042	UTB	10100		KE LOKK	F2210660
A	05662	Ü	50000	Ÿ	00000	10143	UIV.	6142.1		WUICH CAN BE ASSIGNED	F2210670
	05663	0	50000	Ţ	03/10	10100	TZE	51T591 1D170		HAVE REEN ASSIGNED.	F2210680
	05664	Ü	10000	Ŏ	02011		125	5145.2		THIC	F2210690
	05665	0	40200	2	03/12		SUD TAIZ	10170		POLITINE	F2210700
	05666 -	-0	10000	U	05671		1114	10170		MAYES UD THE	F2210710
	05667 -	-0	75400	4	00000		200	DURE		DUDI TOATE	F2210720
	05670 -	-0	60200	U	03/34		OKS	IDIOS (-1		CHRCCOIDT	F2210720
	05671	2	00001	4	05672	10170	117	10180,4,1		HODO	F2210730
	05672	2	00002	2	05663	10180	117	10160,2,2		WORD4	F2210740
	05673	2	00001	4	05674		IIX	10190,4,1			F2210790
	05674	2	00002	1	05663	10190	117	10160,1,2		THE THERE TO MORE	F2210700
	05675 -	-0	53400	2	03725		LXD	NRRC 92		THAN ONE DELCON.	F2210710
	05676 -	-3	00000	2	05723		IXL	10300+2+0		AND TE THESE ASE	F2210700
	05677 -	-3	00001	2	05704		IXL	10195,2,1		AND IF INEKE AKE	E2230000
	05700	0	50000	0	03734		CLA	DUPES		DELCONE ADE DUDI TOATES.	E2210000
	05701	0	60100	0	03733		510	KCDUP		ATHERMICE THE DOCUME	E2210010
	05702	0	50000	0	03751		CLA	L(0)		ADE DUDI TEATER.	E2210020
	05703	0	60100	0	03734		510	DUPES		TE THERE ARE DELCOME.	F2210040
	05704 -	-0	53400	4	03756	10195	LXD	L(5)+4		THERE ARE NELCONS!	E2210040
	05705	0	50000	4	03722	10200	CLA	L1+594		RETURN WHICH CAN BE ASSIGNED HAVE BEEN ASSIGNED. THIS ROUTINE MAKES UP THE DUPLICATE SUBSCRIPT WORD. IF THERE IS MORE THAN ONE RELCON, AND IF THERE ARE DUPLICATES, THEN THE RELCONS ARE DUPLICATES. OTHERWISE, THE DOSUBS ARE DUPLICATES. IF THERE ARE RELCONS, THERE ARE NOT MORE	L 2210820

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				THAN THO	£2210860
05706 -0 1	0000	05720	TNZ IDZ10	IMAN IWU+	F2210870
05707 0 5	0000 4	03712	CLA 51+594	IN DOWN AND DOWN	F2210880
05710 0 1	0 0000	05720	IZE IDZIO	AND DUT DITE IN THE	F2210890
05711 -0 7	5400 4	00000	PXD 0.4	PRODED DOCITIONS OF	F2210000
05712 -3 0	0001 4	05714	TXL ID205,4,1	PROPER POSITIONS OF	F2210910
05713 0 4	0200 0	03752	SUB L(1)	KCSUDS•	F2210920
05714 -0 6	0200 0	03730 ID209	ORS RCSUBS	THAN TWO. PUT THEIR SYMBOLS IN PSYM1 AND RSYM2. AND PUT BITS IN THE PROPER POSITIONS OF RCSUBS.	F2210920
05715 0 5	0000 4	03712	CLA 51+5,4		F2210930
05716 -2 0	0001 2	05722	TNX ID220,2,1		F2210940
05717 0 6	0100 0	03736	STO RSYM2		F2210950
05720 2 0	0002 4	05705 ID210	TIX ID200,4,2		E2210900
05721 0 0	2000 0	05723	TRA ID300		E2210910
05722 0 6	0100 0	03735 ID220	STO RSYM1	FOR ALL DO CURS.	F2210900
05723 -0 5	3400 4	03756 ID300	LXD L(5),4	FOR ALL DU SUDS!	F2211000
05724 0 5	0000 4	03721 10310	CLA X1+5,4	SELECT THE	F2211000
05725 0 1	0 0000	05740	TZE ID340	MAXIMUM OF ALL	F2211010
05726 -0 7	3400 1	00000	PDX 0+1	VARAIBLE N LEVEL	F2211020
05727 -0 5	3400 2	03754	LXD L(3) .2	OF DEFINITION	F2211030
05730 0 5	0000 1	00741 ID320	CLA DOTAGZ+6,1	QUANTITIES.	F2211040
05731 -0 3	2000 0	03773	ANA ADDMSK		F2211030
05732 0 7	6700 0	00022	ALS 18		F2211000
05733 0 3	4000 0	06027	CAS IDES		F2211070
05734 0 6	0100 0	06027	STO IDES		F2211080
05735 0 7	6100 0	00000	NOP		F2211090
05736 2 0	0001 1	05737	TIX ID330,1,1		F2211100
05737 2 0	0001 2	05730 ID330	TIX ID320,2,1	·	F2211110
05740 2 0	0002 4	05724 ID340	TIX ID310,4,2		F2211120
05741 -0 5	3400 4	03756	LXD L(5) 4	COMPARE THIS MAXIMUM	F2211130
05742 -0 5	3400 2	03751	LXD L(0) +2		F2211140
05743 0 5	0000 4	03722 ID350	CLA L1+5,4	WITH EACH SUBSCRIPT	F2211150
05744 0 1	0000 0	06000	TZE 1D380	LEVEL, THOSE SUBSCRIPT	F2211160
05745 0 3	4000 0	06027	CAS IDES	LEVELS LESS THAN OR	F2211170
05746 0 0	2000 0	05764	TRA 1D370	EQUAL TO THE MAXIMUM	F2211180
05747 0 7	6100 0	00000	NOP	LEVEL OF DEFINITION	F2211190
05750 -0 7	5400 4	00000	PXD 0.4	QUANTITY WILL BE TREATED	F2211200
05751 -3 0	0001 4	05753	TXL ID360.4.1	AS REL. CONS.	F2211210
05752 0 4	0200 0	03752	SUB L(1)	INDICATE THIS CONDITION	F2211220
05752 -0 6	0200 0	03727 10360	ORS DORC	IN THE DORC WORD.	F2211230
05754 0 5	00000 4	03721	CLA X1+5.4		F2211240
05755 -0 7	73400 1	00000	PDX 0+1		F2211250
05755 TO 7	0000	04000	CLA BITONE	MAKE INDICATION FOR STORED COUNTER	F2211260
05757 -0 6	0200 1	00740	ORS DOTAGZ+5+1	FOR THIS DORC.	F2211270
05757 -0 0	25400 0	00000	PXD 0.0	CLEAR X(N) AND L(N)	F2211280
05160 -0 1	0100 6	02722	STO 11+5.4	SINCE THEY ARE NO LONGER DOSUBS.	F2211290
05761 0 0	0100 4	02721	STO X1+5+4	,	F2211300
05762 0 0	0100 4	05121	TPA 10380		F2211310
05766 0 3	4000	03722 1027	CASIL	FOR TRUE DO SUBS.	F2211320
UD 164 U 3	2000	05125 1U31	TPA 10272	ESTABLISH LOW LEVEL	F2211330
05/65 0 0	2000 0	02112	TDA 10372	AND LOW INDEX. LOW	F2211340
05766 0 0	2000 0	02112	STO 11	LEVEL WORD WAS	F2211350
05767 0 6	0100 0	03723	CLA VIASAA	INITIALIZED TO	F2211360
05770 0 5	0000 4	03721	CLM AITD\$4	350NF S.	F2211370
05771 0 6	0100 0	03722	SIU AL	Jonest	F2211380
05772 -0 6	3400 4	03/50	3XU LUMPU394	PHT RITS IN	F2211390
05773 -0 7	5400 4	00000 10372	2 270 094	FOR ALL DO SUBS. SELECT THE MAXIMUM OF ALL VARAIBLE N LEVEL OF DEFINITION QUANTITIES. COMPARE THIS MAXIMUM WITH EACH SUBSCRIPT LEVEL, THOSE SUBSCRIPT LEVELS LESS THAN OR EQUAL TO THE MAXIMUM LEVEL OF DEFINITION QUANTITY WILL BE TREATED AS REL. CONS. INDICATE THIS CONDITION IN THE DORC WORD. MAKE INDICATION FOR STORED COUNTER FOR THIS DORC. CLEAR X(N) AND L(N) SINCE THEY ARE NO LONGER DOSUBS. FOR TRUE DO SUBS. ESTABLISH LOW LEVEL AND LOW INDEX. LOW LEVEL WORD WAS INITIALIZED TO 350NES. PUT BITS IN	

05774	-3	00001	4	05776		TXL	ID375,4,1			PR	OPER POSITIONS	S SUB GO TO DIAGNOST	F22	211400
05775	0	40200	0	03752		SUB	L(1)			OF	DOSUBS		F22	211410
05776	-0	60200	0	03731	ID375	ORS	DOSUBS			WO	RD		F 2 2	211420
05777	1	00001	2	06000		IXI	ID380,2,1						F 2 2	211430
06000	. 2	00002	4	05743	ID380	TIX	10350,4,2						F 2 2	(11440
06001	-0	75400	2	00000		PXD	0+2					_	F 2 2	211450
06002	0	60100	0	03726		STO	NRDS			CH	ECK TO SEE THA	AT	F 2 2	211460
06003	-0	10000	0	06005		TNZ	10385	AT	LEAST (ONE 5	OBSCR IS A DOS	OR TO THE STATE	F 2 2	114/2
06004	0	07400	4	00004		TSX	DIAG,4 NO	DOSOR	WAS PRI	ECLUD	ED. ERROR.	GO TO DIAGNOST	10. 722	11485
06005	-0	53400	2	03725	ID385	LXD	NRRC • 2			TH	ESE INSTRUCTIO	ons.	F 2 2	11490
06006	-3	00000	2	06023		TXL	10400,2,0			CO	MPUTE DELIA.	,	F 2 2	11500
06007	-0	53400	4	03752		LXD	L(1),4			15	ONE DISTINCT	DOSUB,	F 2 2	11510
06010	0	50000	0	03733		CLA	RCDUP			ON	E DISTINCT REL	.CON,	F 2 2	11520
06011	-0	10000	0	06021		TNZ	10395			DE	LIA IS ONE	2001125	F 2 2	11530
06012	0	50000	0	03734		CLA	DUPES			11	TWO DISTINCT	DOSUBS •	F 2 2	11540
06013	-0	10000	0	06021		TNZ	ID395			ON	E RELCON, DELT	A IS IWO.	F 2 2	11550
06014	-3	00001	2	06016		TXL	ID390,2,1			11	ONE DOSUBA IN	10	F 2 2	11560
06015	1	00002	4	06021		IXT	10395,4,2			DI	STINCT RELCONS	• •	F22	11570
06016	-0	53400	2	03726	ID390	LXD	NRDS , 2			DE	LTA IS THREE.		F 2 2	11580
06017	-3	00001	2	06021		TXL	10395,2,1			FO	R ALL OTHER CA	SES	F22	11590
06020	1	00001	4	06021		TXI	ID395,4,1			DE	LTA IS ZERO.		F22	11600
06021	-0	75400	4	00000	ID395	PXD	0 9 4						F 2 2	11610
06022	0	60100	0	03732		STO	DELTA				• •		F 2 2	11620
06023	-0	53400	4	05622	ID400	LXD	10075,4			EX	119	-	F 4 2	11650
06024	0	02000	4	00002		TRA	2,4			20	BCOM USED4		F 4 4	11040
06025	-0	53400	4	05622	10410	LXD	100/5+4			EX	DOME NOT HEED		F 2 2	11600
06026	0	02000	4	00001		TRA	194			50	BCOMB NOT OSED	•	F 4 4	11500
06027	0	00000	0	00000	IDES	HIK				CA	WE I THEAGE		F 2 2	13400
06030	-0	63400	4	06036	NAME	SXU	NAM1094			DII	T TAN IN TO.		F 2 2	11600
06031	0	50000	0	03700	0.705	CLA	TAG			PU	1 - INO TH 123	D443	F 4 2	11700
06032	0	60100	0	03701	PATUS	510	15					F463	F 2 2	11710
06033	-0	53400	1	05662		LXU	P104391			CEA	DOU BANCE OF VI		F 2 2	11720
06034	0	07400	4	05411	RETOI	15%	11NFOR 94			SEA	CHINDS FOR NECY	TICE TAG.	F 2 2	11720
06035	0	02000	0	06037		IKA	NAMZU			10	T FOUND	TICE TAGE	£22	11740
06036	-3	00000	0	06073	NAMIU	IXL	NAMOU			OB.	TATN		F 2 2	11750
06037	0	50000	0	03673	NAM2U	CLA	NEWIAG			NE	n 1414		F22	11740
06040	0	60100	0	03701		310	15			NA.	M MF		£22	11770
06041	0	40000	0	03/65		CTO	LEUTAG			HA.	PTL.		E 2 2	11780
06042	0	60100	0	03673		310	NEW!AG			A DI	DANGE		F22	11700
06043	-0	53400	Ţ	03674		CLA	DOTAGZ - 1			FN	TRY RIOCK		F22	11800
06044	Ü	50000	Ţ	00.133		CLA	DO I AGZ 91			EO	P CHATAG		F22	11810
06045	0	60100	0	05063		310	TAC			EN	TOV.		522	11820
06046	Ü	50000	Ŏ	03/00		ALC	10			LIV	1111		F22	11830
06047	0	76700	Ď	00022		ALS	10 TC						F22	11840
06050	0	40000	Ŏ	03701		STO	13					-	F22	11850
06051	0	60100	Ŏ	05064		310	CHATAG						F22	11860
06052	0	50000	0	02725		LYD	NRRC A4			1151	E LIST OR SPCO	00•	F22	11870
06053	-0	23400	4	04057		LAN	NAM30-4-0			DFI	PENDING UPON		F22	11880
06054	3	07400	4	05021		TCY	1 1 ST . 4			AHI AF	ETHER OR NOT		F22	11890
06055	Õ	07400	4	05023		TPA	NAMAO	MUBI	NRRC	TS 71	ERO. I.E. ARE	THERE RELCONS.	F22	11900
06056	-0	52400	2	00001	NAMAO	LIKA	1 (2) 42	NO 1	TINEOR	SEAR	CH REQUIRED.	DOSUBS, A IS TWO. SES, THERE RELCONS.	F22	11910
06057	-0	07/00	1.	05277	HAMOU	TCY	SPC000.44		, 2, OK	JEAN!			F22	11920
00000	-0	U 1400	7	0/011	NAMAO	134	NAMXX 1			FN'	TER		F22	11930
06061	-0	33400	1	04011	NAM40	LAU	MARIAATI			-14				-1,50

TD

					22124
06062 3 00	0000 1	06064	TXH NAM44+1+0	ALPHA) FINAL FRANCE OF TO DIAGNOSTIC AF	2211940
06063 0 0	7400 4	00004	TSX DIAG 4 TAG 5	(NAME TABLE FULL) ERRORS GO TO DIAGNOSTICS F	2211900
06064 0 50	0000 0	03676 NAM44	CLA ALPHA	AND	2211960
06065 -0 50	0100 0	03700	ORA TAG	NAME F	2211970
06066 0 60	0100 1	07301	STO NAMZ +1	- IN	2211980
06067 0 50	0000 0	03701	CLA TS	NAME	2211990
06070 0 60	0100 1	07302	STO NAMZ+1+1	ALPHA, (NAME TABLE FULL. ERROR. GO TO DIAGNOSTIC.)F. AND NAME IN NAME TABLE F. EXIT F. SC CONTAINING ONE DISTINCT INDEXED SUBSCRIPT.F.	2212000
06071 1 7	7776 1	06072	TXI NAM48+1+-2	<u> </u>	2212010
06072 -0 63	3400 1	04011 NAM48	SXD NAMXX+1	P.	2212020
06073 -0 53	3400 4	06036 NAM50	LXD NAM10+4	EXIT ·	2212030
06074 0 02	2000 4	00001	TRA 1,4	F	2212040
			1NSOO PROCESSES	SC CONTAINING ONE DISTINCT INDEXED SUBSCRIPT F	2212050
06075 -0 63	3400 4	06146 1NSOO	SXD 1NS20:4	SAVE LINKAGE	2212060
06076 -0 53	3400 1	03674	LXD XC+1	F/	2212070
06077 0 50	0000 0	04001	CLA BITTWO	IF A COUNTER HAS	2212080
06100 -0 32	2000 1	00741	ANA DOTAGZ+6 + 1	BEEN FOUND,	2212090
06101 -0 10	0000	06142	TNZ 1NS10	GO TO INSIO	2212100
06102 -0 53	3400 4	03731	LXD DOSUBS+4	SKIP TO INSIO	2212110
06103 -3 00	0003 4	06142	TXL 1NS10,4,3	IF NOT FIRST POSITION.	2212120
06104 3 00	0004 4	06142	TXH 1NS10+4+4	F	2212130
06105 0 50	0 0000	03730	CLA RCSUBS	IF ANY RELCONS, F2	2212140
06106 -0 50	0100 0	03727	ORA DORC	GO TO INSIO	2212150
06107 -0 10	0000	06142	TNZ 1NS10	F2	2212160
06110 -0 53	3400 4	03704	LXD C1+4	IF C1 IS NOT ONE, F	2212170
06111 3 00	0001 4	06142	TXH 1NS10+4+1	GO TO 1NS10 F2	2212180
06112 0 50	0000	03773	CLA ADDMSK	THIS SUB. COMB. WILL SERVE F2	2212190
06113 0 32	2000 1	00743	ANS DOTAGZ+8:1	AS COUNTER AND TEST. ENTER IN F2	2212200
06114 0 50	0000	03701	CLA TS	DOTAGZ+8.	2212210
06115 0 76	6700 0	00022	ALS 18	INDICATE F2	2212220
06116 -0 50	0100 0	03770	ORA L(MZ)	BEST TEST F2	2212230
06117 -0 60	0200 1	00743	ORS DOTAGZ+8,1	FOUND. F2	2212240
06120 0 50	0000	04001	CLA BITTWO	INDICATE COUNTER FOUND. F2	2212250
06121 -0 60	0200 1	00741	ORS DOTAGZ+6,1	F	2212260
06122 -0 50	0000	03770	CAL L(MZ)	SET CARWRD NEGATIVE. F2	2212270
06123 -0 60	0200 0	03737	ORS CARWRD	TEST BITONE OF L WORD. F2	2212280
06124 0 50	0000	04000	CLA BITONE	IF ONE SKIP TRASTO F2	2212290
06125 -0 32	2000 1	00740	ANA DOTAGZ+5+1	TEST. F2	2212300
06126 -0 16	0000	06142	TNZ 1NS10	FZ	2212310
06127 0 50	0000 1	00740 1NS05	CLA DOTAGZ+5,1	TEST TO SEE IF TRANSFER F2	2212320
06130 0 12	2000 0	06142	TPL 1NS10	STORE NECESSARY F2	2212330
06131 0 50	0000 1	00733	CLA DOTAGZ+1	MAKE TRASTO ENTRY F2	2212340
06132 0 60	0100 0	05063	STO E1	TO STORE COUNTER F2	2212350
06133 0 50	0000 1	00734	CLA DOTAGZ+1+1	IN LOCATION OF SYMBOL. F2	2212360
06134 0 60	0100 0	05064	STO E2	F2	2212370
06135 0 50	0000	03675	CLA LC	F2	212380
06136 -0 50	0100 0	03701	ORA TS	F2	2212390
06137 0 60	0100 0	05065	STO E3	F2	2212400
06340 0 50	0000	05070	CLA TRASTO	F2	212410
06141 0 07	7400 4	05025	TSX LIST .4	F2	212420
06142 0 50	0000	03757 INS10	CLA L(6)	ENTER F2	212430
06145 0 50	0100 0	03703	STO GROUP	GROUP NR. F2	212440
06144 -0 53	3400 4	06146	LXD 1NS20+4	EXIT FOR CONTAINING ONE DISTINCT INDEXED SUBSCRIPTS SAVE LINKAGE IF A COUNTER HAS BEEN FOUND; GO TO INSIO SKIP TO INSIO IF NOT FIRST POSITION. IF ANY RELCONS; GO TO INSIO IF C1 IS NOT ONE; GO TO 1NSIO IF C1 IS NOT ONE; GO TO 1NSIO IF SUB. COMB. WILL SERVE AS COUNTER AND TEST. ENTER IN DOTAGZ+8. INDICATE BEST TEST FOUND. INDICATE COUNTER FOUND. SET CARWRD NEGATIVE. TEST BITONE OF L WORD. IF ONE; SKIP TRASTO TEST. TEST TO SEE IF TRANSFER STORE NECESSARY. MAKE TRASTO ENTRY TO STORE COUNTER IN LOCATION OF SYMBOL. ENTER GROUP NR. AND EXIT. F2 ENTER GROUP NR. AND EXIT. F2 F2 F2 F2 F2 F2 F2 F2 F2 F	212450
06145 0 02	2000 4	00001	TRA 1.4	F2	212460
06166 0 00	0000 0	00000 1NS20	HTR	F2	212470
NO 140 0 00		00000 Inozo			

	2NSOO ROUTINE PROCESSES S	SAVE LINKAAGE 2NS10 TO 2NS80 DETERMINE THE GROUP NR AND CARRY BITS FOR THE SL.	F2212480
	SUBSCRIPTS.		F2212490
06147 -0 63400 4 06157 2NS00 SXD	2NS25•4	SAVE LINKAAGE	F2212500
06150 -0 53400 1 03731 2NS10 LXD	DOSUBS • 1	2NS10 TO 2NS80 DETERMINE THE	F2212510
06151 -0 53400 2 03753 LXD	L(2),2	GROUP NR AND CARRY BITS	F2212520
06152 0 50000 0 03715 CLA	L1	FOR THE SL.	F2212530
06153 3 00003 1 06155 TXH	2NS20,1,3		F2Z1Z540
06154 0 50000 0 03717 CLA	L2	•	F2212550
06155 -3 00005 1 06160 2NS20 TXL	2NS30+1+5		F2212560
06156 0 40200 0 03717 SUB	L2		F2212570
06157 -3 00000 0 06161 2NS25 TXL	2NS40 • 0		F2212580
06160 0 40200 0 03721 2NS30 SUB	L3		F2212590
06161 -0 12000 0 06174 2NS40 TMI	2NS70		F2212600
06162 0 40200 0 03752 SUB	L(1)		F2212610
06163 -0 10000 0 06172 TNZ	2NS60		F2212620
06164 -3 00003 1 06167 TXL	2N550+1+3		F2212630
06165 -3 00005 1 06172 TXL	2NS60+1+5		F2212640
06161 -0 12000 0 06174 2NS40 1M1 06162 0 40200 0 03752 SUB 06163 -0 10000 0 06172 TNZ 06164 -3 00003 1 06167 TXL 06165 -3 00005 1 06172 TXL 06166 1 00002 2 06167 TX1	2NS50+2+2		F2212650
06167 -0 53400 4 03734 2NS50 LXD	DUPES • 4	THIS DUPE TEST IS AN ADJUSTMENT	F2212660
06170 3 00000 4 06172 TXH	2NS60,4,0	FOR DUPLICATES IN A REDUCED	F2212670
06171 0 07400 4 04754 TSX	CARRY • 4	3NS CASE.	F2212680
06172 0 50000 0 03752 2NS60 CLA	L(1)		F2212690
06173 -3 00000 0 06175 2NS65 TXL	2NS80+0		F2212700
06174 0 50000 0 03757 2NS70 CLA	L(6)		F2212720
06175 0 60100 0 03703 2NS80 STO	GROUP		F2212120
06176 -0 73400 4 00000 PDX	0,4	THE DESIGNATION TO DESCRIP	F2212750
06177 -0 53400 2 03731 LXD	DOSUBS • 2	THIS ROUTINE, TO 2NS90,	F2212140
06200 0 50000 0 03715 CLA	L1	PREPARES A TRAWRD CALLING	F2212750
06201 3 00003 2 06203 TXH	2NS82,2,3	SEQUENCE TO DETERMINE	F2212700
06202 0 50000 0 03717 CLA	L2	WHETHER OR NOT RESETTING	F22127780
06203 -3 00005 2 06206 2NS82 TXL	2NS84,2,5	IS NECESSARY	F2212700
06204 0 56000 0 03717 LDQ	L2		F2212800
06205 0 02000 0 06207 TRA	2N586		F2212810
06206 0 56000 0 03721 2NS84 LDQ	L3	TEST COOLD	F2212820
06207 -3 00001 4 06220 2NS86 TXL	2N588,4,1	IESI GROOP	F2212830
06210 0 60100 0 03740 STO	TLI		F2212840
06211 -0 60000 0 03741 STQ	11.2	•	F2212850
06212 -0 53400 1 03720 LXD	X3,1		F2212860
06213 0 50000 0 03752 CLA	L(1)		F2212870
06214 -3 00005 2 06227 TXL	2N59U+2+5		F2212880
06162	X211		F2212890
06216 0 50000 0 03753 CLA	L(2)		F2212900
06217 0 02000 0 06227 TRA	2N590		F2212910
06220 0 60100 0 03741 2NS88 STO	162		F2212920
06221 -0 60000 0 03740		•	F2212930
06222 -0 53400 1 03714 LXD	- A191 - 1441	2NS90 SEQ. SINGLE REBITS ARE PART OF THE TAG OF THE RESETTING SC.IT MUST BE ADJUSTED FOR DUPE RESETS.	F2212940
06223 0 50000 0 03755 CLA	2NCOA-2-2		F2212950
06224 3 00003 2 06227	¥2.1		F2212960
06225 -0 53400 1 03/16 LXU	1 (2)		F2212970
06226 0 50000 0 03753 CLA	DERITS	2NS90 SEQ. SINGLE REBITS	F2212980
06227 0 60100 0 03/46 2N590 510	NEGITS	ARE PART OF THE TAG OF THE	F2212990
06230 -0 32000 0 03/34 ANA	20001	RESETTING SCOIT MUST BE	F2213000
06231 0 10000 0 06235 126	DERITS	ADJUSTED FOR DUPE RESETS.	F2213010
06232 0 50000 0 03746 CLA	KEDITS		

	_							
06233	-0	50100 0 60100 0	03734		ORA	DUPES		F2213020
06234	0	60100 0	03746		510	REBITS		F2213030
06235	-0	63400 1	06173	2NS91	SXD	2NS65+1		F2213040
06236	-0	53400 2	03752		LXD	L(1) :2	TEST FOR TANSFER BITS. RESETTING NOT NECESSARY IF TRAWRD RESULT ZERO. IF RESETTING NECESSARY, EXECUTE RESET ROUTINE AND EXIT SC WITH THREE DISTINCT INDEXED	F2213050
06237	0	07400 4	05441		TSX	TRAWRD +4	TEST FOR TANSFER BITS.	F2213060
06240	0	10000 0	06244		TZE	2NSEND	RESETTING NOT NECESSARY IF	F2213070
06241	-0	53400 2	03746		LXD	REBITS • 2	TRAWRD RESULT ZERO. IF	F2213080
06242	-0	53400 1	06173		LXD	2NS65 • 1	RESETTING NECESSARY. EXECUTE	F2213090
06242	ň	07400 4	06270		TSY	RESET.4	RESET POUTINE AND	F2212100
00243	- 0	52400 4	06370	SMCEND	1 40	2NS 25 . 4	EVIT	F2212110
06244	-0	53400 4	00121	ZNSEND	TOA	1.4	CALL	£2212110
06245	U	02000 4	00001		IKA	194	56 WITH TURES BLOSTINGS AND SHE	F2213120
						3NSOU ROUTINE PROCESSES	SC WITH THREE DISTINCT INDEXED	F2213130
						SUBSCRIPTS.		F2213140
06246	-0	63400 4	06255	3NS00	SXD	3GRP15•4	SAVE LINKAGE	F2213150
						THIS ROUTINE DETERMINES	GROUP NUMBER FOR 3NS NO DUPE SC	F2213160
06247	-0	53400 2	03751		LXD	L(0),2	PUT ZERO IN XRB	F2213170
06250	٥	50000 0	03721		CLA	L3	OBTAIN L3	F2213180
06251	õ	34000 0	03717		CAS	L2	COMPARE WITH L2	F2213190
06252	1	00004 2	06254		TXI	3GRP10+2+4	L3 GREATER THAN L2	F2213200
06252	۸	07400 4	00004		TSX	DIAGA4 NO DUPESA	FRROR GO TO DIAGNOSTICA	F2213215
00255	~~	24000 0	02715	260010	CAS	11	12 IFSS THAN 12 COMPARE 12.11	F2212220
06254	v	34000 0	05115	300015	TVI	2CDD20.0	12 CREATED THAN 11	E2212220
06255	-3	00000 0	06260	3GKP 15	TCV	DIAC.A NO DIDEC	EDDOO CO TO DIACHOSTIC	F2213230
06256	0	07400 4	00004		158	DIAGIA NO DOPES.	ERROR. GO TO DIAGNOSTIC.	F2213245
06257	1	00001 2	06260		IXI	3GRP20+2+1	L3 LESS THAN LI	F 2213250
06260	0	50000 0	03717	3GRP20	CLA	L2	OBTAIN L2.	F2213260
06261	0	40200 0	03715		SUB	L1	SUBTRACT L1	F2213270
06262	-0	12000 0	06264		TMI	3GRP30	TRA IF L2 LESS THAN L1	F2213280
06263	1	00002 2	06264		TXI	3GRP30,2,2	L2 GREATER THAN L1	F2213290
06264	-0	75400 2	00000	3GRP30	PXD	0,2	PUT GROUP NUMBER IN ACC DEC.	F2213300
06265	0	60100 0	03703		ST0	GROUP	OR INTO TAG 1	F2213310
06266	0	50000 0	03715		CLA	L1	OBTAIN L1	F2213320
06267	ŏ	40200 0	03752		SUB	L(1)	L1 LESS 1	F2213330
06270	õ	40200 0	03717		SUB	L2	L1 LESS 1 LESS L2	F2213340
06270	-0	10000 0	06274		TN7	3GRP40	NOT ZEROANO CARRYATRA	F2213350
06271	-0	63600 2	03755		IXD	1 (4) •2	SET YRR	F2213360
06272	~0	07400 4	05755		TCY	CAPRYAL	AND TSY TO CAPRY	F2212270
00213	Ŏ	50000 4	04734	200040	CLA	1.2	DE-ENTRY ORTAIN 12	E2212200
06274	Ŏ	50000 0	03711	JUKP 40	CLA	1/11	12 I Ecc 1	F2212200
06275	U	40200 0	03732		SUB	1.2	12 1500 1 1500 12	E2212400
06276	0	40200 0	03/21		208	000000	LZ LEGG I LEGG L3	F2213400
06277	-0	10000 0	06302		INZ	SCRPSU	NOI ZEKUINU CAKKYIIKA	F2213410
06300	-0	53400 2	03753		LXD	L(2),2	SEI ARB	F2213420
06301	0	07400 4	04754		TSX	CARRY 9 4	AND TSX TO CARRY	F2213430
06302	-0	53400 6	03751	3GRP50	LXD	L(0) •6	THE FOLLOWING ROUTINE,	F2213440
06303	-0	53400 1	03703		LXD	GROUP • 1	THROUGH 3GRP72, COMPUTES	F2213450
06304	0	02000 1	06313	3GRP55	TRA	3GRP55+7,1	QUANTITIES FOR XRB, XRC.	F2213460
06305	1	00002 2	06314		TXI	3GRP65,2,2	GROUP IS SIX	F2213470
06306	1	00004 4	06314		TXI	3GRP65,4,4	FIVE	F2213480
06307	ī	00004 2	06314		TXI	3GRP65 • 2 • 4	FOUR	F2213490
06310	1	00007 6	06313		TXT	3GRP60+6+2	THREE	F2213500
00310	1	00002 6	06314		TYI	3GRP65.44.2	TWO	F2213510
00311	1	00002 4	06314		TYI	3GPP60-4-4	ONE	E2212E20
00312	. 1	00004.4	00313	20060	TVI	3CDD45 - 2 - 2	VIIL	F2212E2A
06313	Ţ	00002 2	00314	3GRP60	LVI	99RF999494 .		F2212520
06314	0	50000 4	03120	SUKPOS	CLA	A17494 ·	·	F2213340
06315	0	60100 0	06362		210	INA .	RESET ROUTINE AND EXIT SC WITH THREE DISTINCT INDEXED SAVE LINKAGE GROUP NUMBER FOR 3NS NO DUPE SC PUT ZERO IN XRB OBTAIN L3 COMPARE WITH L2 L3 GREATER THAN L2 ERROR. GO TO DIAGNOSTIC. L3 LESS THAN L2.COMPARE L3.L1 L3 GREATER THAN L1 ERROR. GO TO DIAGNOSTIC. L3 LESS THAN L1 OBTAIN L2 SUBTRACT L1 TRA IF L2 LESS THAN L1 L2 GREATER THAN L1 PUT GROUP NUMBER IN ACC DEC. OR INTO TAG 1 OBTAIN L1 L1 LESS 1 L1 LESS 1 LESS L2 NOT ZERO.NO CARRY.TRA SET XRB AND TSX TO CARRY RE-ENTRY.OBTAIN L2 L2 LESS 1 L2 LESS 1 L2 LESS 1 L2 LESS 1 L5 LESS L3 NOT ZERO.NO CARRY.TRA SET XRB AND TSX TO CARRY THE FOLLOWING ROUTINE. THROUGH 3GRP72, COMPUTES QUANTITIES FOR XRB, XRC. GROUP IS SIX FIVE FOUR THREE TWO ONE	F 2213550

D .

					-		~. •	W3.5 4							F2213560
	06316	0	50000 4	٠ (03721		CLA	X1+294							F2213570
	06317	0	60100) (06363		510	INL							F2213580
	06320	O	50000 2	? (03720		CLA	X1+492		•					F2212500
	06321	0	60100) (06364		STO	MIDX							F2213590
	06322	0	50000 2	2 (03721		CLA	X1+5•2							F2213600
	06323	0	60100 0) (06365		STO	MIDL				:			F221361U
	06324	3.	00000 4	+ (06326		TXH	3GRP70,4,0			TH	HE QUANTIT	IES IN	XRB.	F2213620
	06325	1	00001 4	+ (06326		IXT	3GRP70,4,1			XF	RC, ARE ZE	RO. TWO	• OR	F2213630
	06326	-0	63400 4	. (06357	3GRP70	SXD	INP • 4			FC	our, adjus	TED TO	ONE •	F2213640
	06327	- 3	00000 2	2 (06331		TXH	3GRP72 • 2 • 0			TW	VO, FOUR,	TO INDI	CATE THE	F2213650
	06330	ĩ	00001	,	06331		TXI	3GRP72 + 2 + 1			PC	SITION OF	THE SU	BCCRIPT	F2213660
	06221	-0	63400	;	06361	3GRP72	SXD	MIDP +2			BE	ING RESET	STORE	IN INP, MIDP.	F2213670
	06331	-0	53400 4		03755		LXD	L(4)•4			TH	IS LOOP I	S EXECU	TED TWICE.	F2213680
	06222	-0	50000 4		05366	3GRP75	CLA	INX+4.4			OB	STAIN INNE	R INDEX	OF PAIR	F2213690
	00333	Ň	70400	•	00000	JUN 12	DUX	0.1			IA	XRA	•		F2213700
	06334	-0	13400 1		00000		CLA	TAIL +4.4			OF	STAIN INNE	R LEVEL	OF PAIR	F2213710
	06335	Ŏ	50000 4	+ !	06361		STO	TIO			TI	2			F2213718
	06336	0	60100 C	, (03741		310	112			0.5	TAIN LOWE	PIFVFI	T N	F2213720
	06337	0	50000 €	} (03723	-	CLA	EL I			Ti	1	K ELVEE	444	F2213740
	06340	0	60100) (03740		210	161			Di	IT ONE IN	YPR.		F2213750
	06341	-0	53400 2	2 (03752		LXD	L(1) 92			5 4	WE YOU	AILU 9		F2213760
	06342	-0	63400 4	+ (06360		SXU	3GKP8094			34	IN LICE TOA	MBD -		F2213770
	06343	0	07400 4	+ (05441		15%	IKAWKU 94			An	ETODE VOC	MUD .		F2213780
	06344	-0	53400 4	+ (06360		LXD	3GRP80 • 4			KC	STORE ARC	THE IE	7EDO .	F2212700
	06345	0	10000) (06355		TZE	3GRP77			60) IO INDEX	ING IF	ZERU•	F2213170
	06346	0	50000 4	+ (06363		CLA	INP+4,4			IN	KAWRD RESU	LI NOI	ZERU	F2213000
	06347	-0	73400 2	2 (00000		PDX	0,2			PR	REPARE TO		•	F2212010
	06350	0	50000 4	+ (06366		CLA	INX+4+4			US	E RESET			F2213020
	06351	-0	73400 1	L	00000		PDX	0,1							F2213030
	06352	-0	63400 4	; (06360		SXD	3GRP80•4			SA	VE XRC			F2213840
	06353	0	07400 4	+ (06370		TSX	RESET • 4			GO	TO RESET	•		F2213850
	06354	-0	53400 4	+ (06360		LXD	3GRP80 • 4			RE	STROE XRC	,		F2213860
	06355	2	00002 4	4 (06333	3GRP77	TIX	3GRP75,4,2			IN	IDEX AND G	O BACK		F2213870
	06356	0	02000 0) (06366		TRA	3NSEND			OR	REXIT			F2213880
	06357	ŏ	00000) (00000	INP	HTR				PO	SITION OF	INNER :	SUB.	F2213890
	06360	ŏ	00000	0	00000	3GRP80	HTR								F2213900
	06361	õ	00000) (00000	MIDP	HTR				PO	SITION OF	MIDDLE	SUB.	F2213910
	06363	ň	00000	5	00000	INX	HTR		INDEX	INNER	LE	VEL SUBSC	RIPT		F2213920
	06362	ŏ	00000		00000	INL	HTR		LEVEL	INNER	LE	VEL SUBSCI	RIPT		F2213930
	06365	Š	00000		00000	MIDX	HTR		INDEX	MIDDL	EL	EVEL SUBS	CRIPT		F2213940
	00304	Ň	00000	,	00000	MIDI	HTR		LEVEL	MIDDL	EL	EVEL SUBS	CRIPT		F2213950
	00303	Ŏ	53400	,	06255	SNSEND	LYD	3GRP15.4			_				F2213960
	06366	-0	53400 4	+ !	00222	SHOCHU	TDA	1.6							F2213970
	06367	0	02000 4	• •	00001	DECET	CVD	DES45.4			SA	VF I INKAG	F		F2213980
	06370	-0	63400 4	+ 1	06421	KESEI	270	NE34394			SA	VE	-		F2213990
	06371	-0	75400 4	2 (00000		STO	DE 5200			PR	EFIX (REB	ITS)		F2214000
	06372	0	00100		00013		210	0.1			SA	VE INDEX			F2214010
	06373	-0	15400	. (00000		CTO	DEC310			OF	RESET			F2214020
	06374	0	60100	ינ	06614		210	KE9310			OP	TAIN CA TI	N		F2214030
	06375	0	50000) (03/10		LLA	10			70	UDDECE DAD	T.		F2214040
	06376	0	77100	9 (00022		ARS	18			TH	DEVEN T D	ANSEED.	CIYERI=CIRERITE	F2214050
•	06377	0	02000 2	2 (06406	KES05	TRA	KESUD+/12			TIN	VODI-11A	HISFERS	CIVIDI-CIVEDI IS	F2214060
	06400	0	02000) (06422		TRA	RES50			- (VKD1=111			F2214070
	06401	0	02000	3 (06414		TRA	RES30			C	YKR1=101		XRB. OR ONE. CATE THE BCCRIPT IN INP. MIDP. TED TWICE. OF PAIR IN ZERO. ZERO. SUB. C(XRB)=C(REBITS)	E2214000
	06402	0	02000 0) (06416		TRA	RES40			C	YKR1=100			F2214000
	06403	0	02000 0) (06412		TRA	RES20			C(XKR1=011			F 2214090
															•

									F2214100
0	6404	0	02000	06422		TRA	RES50	C(XRB)= 010 C(XRB)=001	F2214100
(6405	0	60100	05064	RES10	STO	E2	C(XRB)= 010 C(XRB)=001 THESE INSTRUCTIONS, THROUGH RES60, COMPUTE THE	F2214110
•	6406	0	50000	0 03713	25520	CLA	D2	THESE INSTRUCTIONS, THROUGH	F2214120
6	6407	0	77100	00022		ARS	18	RESGO, COMPUTE THE	F2214130
•	6410	0	40000	0 03712		ADD	D1	CHARACTERISTIC WURDS OF THE	F2214140
0	6411	0	02000	06430	•	TRA	RES60	SUBSCRIPT COMBINATION.	F2214150
C	6412	0	40000	0 03706	RES20	ADD	C2		F2214160
Ċ	6413	0	02000	0 06405		TRA	RES10	CHARACTERISTIC WORDS OF THE SUBSCRIPT COMBINATION.	F2214170
C	6414	0	40000	0 03704	RES30	ADD	C1		F2214180
Č	6415	0	02000	0 06405		TRA	C2 RES10 C1 RES10 C1 E2 L(0) RES60+0 C2 18		F2214190
Č	6416	0	50000	0 03704	RES40	CLA	C1		F2214200
C	6417	0	60100	0 05064		STO	E2	•	F2214210
Č	6420	0	50000	0 03751		CLA	L(0)		F2214220
	6421	-3	00000	0 06430	RES45	TXL	RES60.0		F2214230
è	6422	٥	50000	0 03706	RE\$50	CLA	C2		F2214240
•	6423	0	77100	0 00022		ARS	18		F2214250
Č	6424	-3	00002	2 06426		TXL	RES55,2,2		F2214260
ē	6425	0	40000	0 03704		ADD	C1		F2214270
Č	6426	0	60100	0 05064	RES55	STO	E2		F2214280
Č	6427	0	50000	0 03712		CLA	D1	•	F2214290
- 6	6430	0	60100	05065	RES60	STO	E3		F2214300
è	6431	3	00004	2 06433		TXH	RES65+2+4	IF PREFIX IS 1.0.0.	F2214310
7	6432	3	00003	2 06620		TXH	RES400,2,3	T RA TO RES400	F2214320
7	6433	-0	53400	1 04007	RES65	LXD	RESXX 1	SEARCH	F2214330
7	6434	-0	63400	1 06445		SXD	RES75+1	RETAB	F2214340
ì	6435	ŏ	53400	1 04007		LXA	RESXX+1	FOR	F2214350
ì	6436	ŏ	02000	0 06445		TRA	RES75	SAME	F2214360
	6437	ŏ	50000	1 07755	RES70	CLA	RETABZ + 1	INDEX.	F2214370
à	6440	-0	32000	0 03772		ANA	DECMSK		F2214380
7	6441	ō	34000	0 06614		CAS	RES310		F2214390
ì	6442	ĭ	77775	1 06445		TXI	RES75+1+-3		F2214400
	6443	ō	02000	0 06447		TRA	RES80	INDEX FOUND, GO TO RES80	F2214410
ì	6444	1	77775	1 06445	RES73	IXT	RES75 + 1 + - 3		F2214420
	6445	3	00000	1 06437	RES75	TXH	RES70+1		F2214430
7	6446	ō	02000	0 06466		TRA	RES85	NOT FOUND, GO TO RES85	F2214440
	6447	0	50000	1 07755	RES80	CLA	RETABZ • 1	COMPARE PREFIX OF	F2214450
	6450	-0	32000	0 06615		ANA	RES320	RETAB ENTRY	F2214460
7	6451	Õ	76700	00006		ALS	6	WITH CURRENT	F2214470
ì	6452	Õ	40200	0 06613		SUB	RES300	PREFIX. IF NOT EQUAL,	F2214480
7	6453	-0	10000	0 06444		TNZ	RES73	CONTINUE RETAB SEARCH.	F2214490
è	6454	ŏ	50000	1 07756		CLA	RETABZ+1,1	IF EQUAL, COMPARE	F2214500
- 7	6455	ō	40200	0 05064		S UB	E2	C HARACTERISTIC WORDS.	F2214510
. ?	6456	-0	10000	0 06444		TNZ	RES73	IF the second se	F2214520
ì	6457	Õ	50000	1 07757		CLA	RETABZ+2:1	NOT	F2214530
7	6460	ō	40200	0 05065		SUB	E3		F2214540
7	6461	-0	10000	0 06444		TNZ	RES73	EQUAL, CONTINUE SEARCH.	F2214550
7	6462	Ô	50000	1 07755		CLA	RETABZ • 1	IF PREFIX IS 1,0,0,0, T RA TO RES400 SEARCH RETAB FOR SAME INDEX. INDEX FOUND, GO TO RES80 NOT FOUND, GO TO RES85 COMPARE PREFIX OF RETAB ENTRY WITH CURRENT PREFIX. IF NOT EQUAL, CONTINUE RETAB SEARCH. IF EQUAL, COMPARE C HARACTERISTIC WORDS. IF NOT EQUAL, CONTINUE SEARCH. IF EQUAL, USE RESET TAG ALREADY ENTERED. SAVE NAME. TRA TO RES200 NO USABLE ENTRY FOUND. MAKE NEW	F2214560
7	6463	-0	32000	0 03773		ANA	ADDMSK	USE RESET TAG ALREADY	F2214570
,	6464	õ	60100	0 06616		STO	RES330	ENTERED. SAVE NAME.	F2214580
7	6465	0	02000	0 06573		TRA	RES200	TRA TO RES200	F2214590
	6466	ñ	50000	0 06613	RES85	CLA	RES300	NO USABLE ENTRY FOUND.	F2214600
	6467	6	77100	0 00006		ARS	6	MAKE	F2214610
,	6470	-0	50100	0 03700		ORA	TAG	NEW .	F2214620
	4471	Õ	60100	06616		STO	RES330		F2214630
	107 f L	•	30100						,

										ENTRY IN RETAB. ERROR. ADJUST IN DEX. MAKE E2 WORD FOR DRUMTAG OR TAGTAG ENTRY MAKE E1 WORD THESE INSTRUCTION TO RES170, DETERN WHICH COEFFICIENT ARE GREATER THAN ONE AND PLACE THIS INFO IN E4(TAG1).				E2214440
06472	-0	50100	Ō	06614		ORA	RESXX,1 RESXX,1			ENTRY				F2214640 F2214650
06473	-0	53400	Ţ	04007		TVU	RESAMPI DECRIPATION			PETAR.				F2214660
06474	3	00000	1	00476		TCY	DIAGAA DETAR	TARIF	FIRI .	FRROR	GO T	O DIAG	NOSTICA	F2214675
06475		60100	4	07755	DES87	STO	RETARY 1	INDEL	, 022	2,	• •			F2214680
06477		60100	ň	05064	KL301	CLA	F2							F2214690
06500		60100	7	07756		STO	RETABZ+1•1							F2214700
06500	0	50000	â	05065		CLA	E3							F2214710
06502	ŏ	60100	ĭ	07757		STO	RETABZ+2+1							F2214720
06502	1	77775	ī	06504		TXI	RES88+1+-3			ADJUST IN DEX.				F2214730
06504	-0	63400	ī	04007	RES88	SXD	RESXX • 1							F2214740
06505	Ŏ	50000	ō	06614	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	CLA	RES310			MAKE E2 WORD				F2214750.
06506	. 3	00005	2	06522		TXH	RES96,2,5			FOR DRUMTAG OR				F2214760
06507	3	00004	2	06521		TXH	RES94,2,4			TAGTAG ENTRY				F2214770
06510	3	00003	2	06520		TXH	RES92,2,3							F2214780
06511	3	00002	2	06515		TXH	RES90+2+2							F2214790
06512	á	00001	2	06522		TXH	RES96.2.1							F2214800
06513	0	77100	ō	00022		ARS	18							F2214810
06514	. 0	02000	ŏ	06522		TRA	RES96			•				F2214820
06515	Ō	77100	Õ	00022	RES90	ARS	18							F2214830
06516	ŏ	40000	ō	06614		ADD	RES310							F2214840
06517	Ď	02000	Õ.	06522		TRA	RES96							F2214850
06520	ŏ	50000	0	03751	RES92	CLA	L(0)			•				F2214860
06521	0	77100	ŏ	00022	RES94	ARS	18				,			F2214870
06522	0	60100	ō	05064	RES96	STO	E2							F2214880
06522	Ô	50000	ō	06614		CLA	RES310			MAKE				F2214890
06524	ō	77100	ō	00022		ARS	18			E1 WORD				F2214900
06525	3	00003	2	06527		TXH	RES98+2+3			•				F2214910
06526	ő	50000	ō	03751		CLA	L(0)							F2214920
06527	ō	60100	Ŏ	05063	RES98	STO	E1							F2214930
06530	-0	53400	1	06614		LXD	RES310+1							F2214940
.06531	Ö	50000	ī	00733		CLA	DOTAGZ • 1							F2214950
06532	-0	32000	Ō	03772		ANA	DECMSK							F2214960
06533	-0	60200	0	05063		OR5	E1			•				F2214970
06534	. 0	50000	Õ	06616		CLA	RES330			MAKE				F2214980
06535	0	60100	Ō	05065		STO	E3			E3 WORD				F2214990
06536	ŏ	50000	Õ	03757		CLA	L(6)			MAKE				F2215000
06537	0	60100	0	05066		STO	E4			£4				F2215010
06540	Ö	50000	ō	06613		CLA	RES300			WORD				F2215020
06541	Ô	77100	0	00022		ARS	18							F2215030
06542	-0	60200	Ŏ.	05066		ORS	E4							F2215040
06543	-3	00002	2	06550		TXL	RES110,2,2							F2215050
06544	-3	00003	2	06546		TXL	RES100.2.3							F2215060
06545	-3	00004	2	06550		TXL	RES110,2,4							F2215070
06546	. 6	76700	ō	00011	RES100	ALS	9							F2215080
06547	-0	60200	Õ	05066		ORS	E4			· .				F2215090
06550	ñ	50000	ō	03751	RES110	CLA	L(0)			THESE INSTRUCTION	S,			F2215100
06551	ñ	60100	Õ	06617		STO	RES340			TO RES170, DETERM	INE			F2215110
06552	-0	53400	4	03756		LXD	L(5),4			WHICH COEFFICIENT	S			F2215120
06552	ñ	50000	4	03711	RES120	CLA	C1+5,4			ARE GREATER THAN				F2215130
06554	้	40200	Ó	03752		SUB	L(1)			ONE AND PLACE				F2215140
06555	n	10000	õ	06562		TZE	RES140			THIS INFO IN				F2215150
06556	2	00001	4	06557		TIX	RES130,4,1			E4(TAG1).				F2215160
06557	-0	75400	4	00000	RES130	PXD	0.4							F2215170
4 4771			,		•									

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	ORS RES340		F2215180
06560 -0 60200 0 06617 06561 1 00001 4 06562 06562 2 00002 4 06553 RE	TXI RES140,4,1		F2215190
06561 1 00001 4 06562 PE	C140 TIY DES120.44.2		F2215200
00502 2 00002 4 00555 RE	CIA DES340		F2215210
06563 0 50000 0 06617	ANA DESSOO		F2215220
06564 -0 32000 0 06613	ADC 4		F2215230
06565 0 77100 0 00006	AKO D		F2215240
06566 -0 60200 0 05066	OKS E4	DRIM TAG ENTRY	F2215250
06567 0 50000 0 05073	CLA DRMIAG	OP CHILL	F2215260
06570 0 07400 4 05025	15X L15194	TAGTAG	F2215270
06571 0 02000 0 06573	IRA RESZUU	ENTOV.	F2215280
06572 0 07400 4 05510 RE	5180 15X TAGENT 94	MAVE	F2215290
06573 -0 53400 1 06614 RE	5200 LXD RES310+1	PROPER	F2215300
06574 0 50000 1 00733	CLA DOTAGZ 1	TRACTO	F2215310
06575 0 60100 0 05063	SIO EI	ENTRY	F2215320
06576 0 50000 0 03741	CLA TL2	CNIKI	F2215220
06577 0 77 100 0 00022	ARS 18		F2215350
0 6600	ADD TL1		F2219340
06601 0 60100 0 05064	STO EZ		F2215550
06602 0 50000 0 06616	CLA RES330	•	F2215300
06603 0 76700 0 00022	ALS 18		F2215310
06604 0 40000 0 03701	ADD TS		F221530U
06605 -0 76000 0 00003	\$SM	ř	F2215390
06606 0 60100 0 05065	STO E3		F2215400
06607 0 50000 0 05070	CLA TRASTO		F2215410
06610 0 07400 4 05025	TSX LIST+4		F2215420
06611 -0 53400 4 06421 RE	S210 LXD RES45•4	EXIT.	F2215430
06612 0 02000 4 00001	TRA 1,4		F2215440
06613 0 00000 0 00000 RE	ES300 HTR	PREFIX STORAGE	F2215450
06614 0 00000 0 00000 RE	ES310 HTR	INDEX STORAGE	F2215460
06615 +000000070000 RE	ES320 OCT 70000	PREFIX MASK	F2215470
06616 0 00000 0 00000 RE	S330 HTR	RESET NAME STORAGE	F2215480
06617 0 00000 0 00000 RE	ES340 HTR	E.S.	F2215490
06620 0 50000 0 05064 RE	ES400 CLA E2	TEST FOR COEFFICIENT	F2215500
06621 0 40200 0 03752	SUB L(1)	EQUAL TO ONE.	F2215510
06622 -0 10000 0 06433	TNZ RES65	IF NOT, PROCESS NORMALLY	F2215520
06623 0 50000 1 00733	CLA DOTAGZ 1	THROUGH RESET.	F2215530
06624 0 77100 0 00021	ARS 17	TEST FOR CONSTANT N1.	F2215540
06625 0 76000 0 00001	LBT	IF VARIABLE, NORMAL PROCESSING.	F2215550
06626 0 02000 0 06630	TRA RES410	0	F2215560
06627 0 02000 0 06433	TRA RES65	1	F2215570
06630 0 50000 1 00741 RE	S410 CLA DOTAGZ+6+1	HAS COUNTER BEEN FOUND.	F2215580
06631 -0 32000 0 04001	ANA BITTWO		F2215590
06633 =0 10000 0 06645	TNZ RES420	IF SO. GO TO RES420	F2215600
06632 0 50000 0 03741	CLA TL2	IF NOT. MAKE ENTRY	F2215610
06634 0 77100 0 00022	ARS 18	IN ADDED TAG TABLE	F2215620
06634 0 77100 0 00022	ORA TL1	FOR PROCESSING INTO	F2215630
06635 =0 76000 0 00003	SSM	DRUM TAG AFTER NEST	F2215640
06630 -0 76500 0 00003	LRS 35	ANALYSIS.	F2215650
04440 -0 75400 1 00000	PXD 0+1		F2215660
06441 -0 50100 0 02701	ORA TS		F2215670
U0041 -0 50100 0 03701	LXD L (1) •2	DRUM TAG ENTRY OR TAGTAG ENTRY. MAKE PROPER TRASTO ENTRY EXIT. PREFIX STORAGE INDEX STORAGE INDEX STORAGE PREFIX MASK RESET NAME STORAGE E.S. TEST FOR COEFFICIENT EQUAL TO ONE. IF NOT, PROCESS NORMALLY THROUGH RESET. TEST FOR CONSTANT N1. IF VARIABLE, NORMAL PROCESSING. 0 1 HAS COUNTER BEEN FOUND. IF SO, GO TO RES420 IF NOT, MAKE ENTRY IN ADDED TAG TABLE FOR PROCESSING INTO DRUM TAG AFTER NEST ANALYSIS. TRA TO EXIT COUNTER FOUND, USE RSR.	F2215680
U0042 -U 334UU 2 U3132	TSX TAGADD 4		F2215690
U0045 U U14UU 4 U3434	TRA RES210	TRA TO EXIT	F2215700
06644 0 02000 0 06611	TOUR NEGATO	COUNTER FOUND. USE RSR.	F2215710
06645 0 07400 4 05140 RE	1344V 134 R3RFT	tourist rounds out home	,

								· ·		
	06646	0	02000	0	06611		TRA	RES210	TRA TO EXIT	F2215720
	•••							THE 2 WD SUBRT NORMR! SP	PACES TAPE 1 PAST DIAGNOSTIC RECORD.	F2215726
	06647	0	76200	0	00221	NORMRT	RDS	145 SKIP OVER	DIAGNOSTIC RECORD ON SYSTEM TAPE.	F2215727
	06650	0	02000	0	00004				TO CS (MONITOR)	F2215730
					06651		BSS	= -		F2215740
					06771	TAGZ	BSS	1		F2215750
					06772		BSS	99	FN030 SINGLE RELATIVE CONSTANTS SUBS, DOES ALL PROCESSING POSSIBLE MULTIPLE DEFINITION,	F2215760
						ADTAGZ	BSS	1	•	F2215770
					07136		BSS	99	,	F2215780
					07301	NAMZ	BSS	1		F2215790
					07302		BSS	299		F2215800
					07755	RETABZ	BSS	1	51140A	F2215805
								MASTER RECORD CARD =	FN030	F2215810
								THIS ROUTINE PROCESSES	SINGLE RELATIVE CONSTANTS	F2215810
								AND, FOR SC WITH TWO RC	SUBS, DOES ALL PROCESSING	F2215820
								EXCEPT WHERE THERE IS A	POSSIBLE MULTIPLE DEFINITION;	F2215840
								Wt Mittell Lotter to cvero	-11 2110000	F2215850
					05566		ORG	IDENT STATE	В	F2215860
	05566	-0	53400	1	00030	CORES	LXD	DOTAG-1+1		F2215870
	05567	-0	63400	1	05602		SXD	DSDR20+1		F2215880
.*	05570	-0	63400	1	05745			DSD118+1		F2215890
	05571	-0	63400	1	05762			DSD145•1		F2215900
	4	_ ^		1	06036		\$XD	2R0020 • 1		
	05573	-0	76000	0	00144	DSDR00	MSE	100		F2215020
	05574	0	76100	0	00000		NOP		THE THREY OF DC TH VDA	F2215920
	05575	-0	53400	1	03674		LXD	XC+1	PUT INDEX OF DC IN XRA	F2215040
	05576	-0	53400	4	03732		LXD	DELTA+4	PUT DELIA IN ARC	F2215050
	05577	0	50000	0	03675		CLA	LC	PUT INDEX OF DC IN XRA PUT DELTA IN XRC INITIALIZE END OF DC TEST INSTR TAKE NEXT DOWN DO; IF POSSIBLE EXIT IF DOTAG EXHAUSTED. OBTAIN LEVEL OF THIS DO IN XRB; COMPARE WITH LEVEL OF D6 AND EXIT IF NOT IN DC. OBTAIN SYMBOL OF THIS DO COMPARE WITH (FIRST) R SYM. IF THIS DO IS DRI; TRA. IF NOT DRI; GO BACK; UNLESS DELTA3 OBTAIN SYMBOL AGAIN AND COMPARE WITH RSYM2 IF NOT RSYM1 OR RSYM2; GO BACK IF DO SYM IS RSYM2;	F2215950
	05600	0	62200	0	05605		STD	DSDR30	DC 1EST INSIK	F2215070
	05601	1	77767	1	05602	DSDR10	TXI	DSDR20+1+-9	TAKE NEXT DOWN DOTT POSSIBLE	F2215910
	05602	-3	00000	1	05734	DSDR20	TXL	DSD100+1	EXII IF DUING EXHAUSTED	F2215900
	05603	0	50000	1	00740		CLA	DOTAGZ+5,1	OBIAIN FEAFF OF 1412 DO IN	F2215770
	05604	-0	73400	2	00000		PDX	0+2	XKB+COMPAKE WITH LEVEL OF	F2216000
	05605	-3	00000	2	05734	DSDR30	TXL	DSD100+2	DE AND EXIL IF NOT IN DC.	F2216010
	05606	0	50000	1	00734		CLA	DOTAGZ+1+1	OBJAIN STMBOL OF THIS DO	F2216020
	05607	0	40200	0	03735		SUB	RSYM1	COMPARE WITH (FIRST) K STMO	F2216030
	05610	0	10000	0	05621		TZE	DSDR50	IF INIS DU 15 DRIFIKA.	F2216040
	05611	-3	00002	4	05601		TXL	DSDR10+4+2	IF NOT DRIGO BACK JUNLESS DELIAS	F2216050
	05612	0	50000	1	00734		CLA	DOTAGZ+1,1	OBJAIN STMBUL AGAIN	F2216000
	05613	0	40200	0	03736		SUB	RSYM2	AND COMPARE WITH RSTM2	F2216010
	05614	-0	10000	0	05601		TNZ	DSDR10	IF NOT KSYMI OK KSTM2900 DACK	F2216090
	05615	0	50000	0	03736		CLA	RSYM2	IF DU STM 15 KSTM29	F2216100
	05616	0	56000	0	03735		LDQ	RSYM1	SWITCH KSYMI AND KSYMZ	F2216100
	05617	0	60100	0	03735		5 TO	RSYM1	TO MAKE BUCKET LABLES	F2216110 F2216120
	05620	-0	60000	0	03736		STQ	RSYM2	AGREE WITH ORDER OF DO FORMULAS	F2216130
	05621	-0	63400	1	06365	DSDR50	SXD	XR1+1	SAVE	F2216130
	05622	-0	75400	2	00000		PXD	0.2	INDEX OF RI	F2216140
	05623	0	60100	0	06366		STO	LR1	AND LEVEL OF KI	F2216150
	05624	0	60100	0	03741		STO	TL2	INITIALIZE TRAWRU ILZ	F2216160
	05625	0	50000	0	03723		CLA	LL	INITIALIZE TRAWKU ILI	F2216170
	05626	0	60100	0	03740		STO	TL1	PREPARE	F2216180
	05627	-0	53400	2	03752		LXD	L(1),2	IKAWKU C(XKB)	F2216190 F2216200
	05630	-3	00002	4	05632		TXL	DSDR55,4,2		E2214210
	05631	-0	53400	2	03753		LXD	L(2),2	AND COMPARE WITH RSYM2 IF NOT RSYM1 OR RSYM2, GO BACK IF DO SYM IS RSYM2, SWITCH RSYM1 AND RSYM2 TO MAKE BUCKET LABLES AGREE WITH ORDER OF DO FORMULAS SAVE INDEX OF R1 AND LEVEL OF R1 INITIALIZE TRAWRD TL2 INITIALIZE TRAWRD TL1 PREPARE TRAWRD C(XRB)	F2216210

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05632	0	07400	4	05441	DSDR55	TSX	TRAWRD • 4	GO TO TRAWRD AND	F2216220
05633	0	60100	0	06371		STO	D2D1	SAVE IF NOT ZERO	F2216230
05634 -	0	53400	4	03732		LXD	DELTA,4	RETURN HERE	F2216240
05635	3	00002	4	05703		TXH	DSDR85,4,2	TRANSFER IF DELTA IS THREE	F2216250
05636	0	10000	0	05602		TZE	DSDR20	RETURN IF RESULT ZERO	F2216260
05637 -	0	63400	1	05733		SXD	DSDR95+1	•	F2216270
05640 ~	3	00001	4	05655		TXL	DSDR65,4,1	TR IF DELTA=1	F2216280
05641	0	50000	0	03761		CLA	L(36)	FOR DELTA=2.SEPARATE	F2216290
05642	0	40200	0	03675		SUB	LC	TRAWRD RESULTS.	F2216300
05643	0	77100	0	00022		ARS	18		F2216310
05644	0	62100	0	05647		STA	DSDR60		F2216320
05645	0	56000	0	03751		LDQ	L(0)		F2216330
05646	0	50000	0	06371		CLA	D2D1		F2216340
05647	0	76500	0	00000	DSDR60	LRS			F2216350
05650	0	10000	0	05652		TZE	DSDR62	IF TRANSFERS EXIST DC TO DL.	F2216360
05651	0	76000	0	00144		PSE	100	SET SENSE SWITCH	F2216370
05652 -	0	60000	0	06371	DSDR62	STQ	D2D1	•	F2216380
05653	0	50000	0	06371		CLA	D2D1		F2216390
05654	0	10000	0	05700		TZE	DSDR80	IF NO TRANSFERS DR TO DC.EXIT	F2216400
05655	0	50000	0	03672	DSDR65	CLA	ATSW	TEST ADDED TAG SWITCH	F2216410
05656 -	0	10000	0	05700		TNZ	DSDR80	IF ADDED DELTA TWO. SKIP INSERT	F2216420
05657 -	0	53400	1	06365		LXD	XR1.1	IS TAG IN DR1	F2216430
05660	0	07400	4.	05411		TSX	TINFOR • 4	GO TO TINFOR AND RETURN	F2216440
05661	o i	02000	o	05667		TRA	DSDR70	FOUND	F2216450
05662 -	٥	53400	2	03751		LXD	L(0) •2	NOT FOUND	F2216460
05663 -	0	53400	ī	06365		LXD	XR1•1		F2216470
05664	0	07400	4	05254		TSX	TAGADD • 4	INSERT TAG IN RIGRETURN	F2216480
05665 -	n	60000	'n	06374		STO	TR1	HERE AND STORE NAME IN TRI	F2216490
05666	ñ	02000	ň	05675		TRA	DSDR75	THE THE STORE TRAIL IN THE	F2216500
05667 -	ñ	52400	ĭ	06365	DSDR70	1 XD	YR1 . 1	FIND NAME OF TAG IN PI	F2216510
05670	2	50000	î	00707	DODKIO	CLA	DOTAG2.1	THE MANE OF THE THE ME	F2216520
05671 -	ň	32000	â	00,77		ANA	DECMSK		F2216530
05672	ň	40000	ž	03700		ADD	TAG		F2216540
05672	0	07400	4	06376		TSY	GETNAM.4		F2216550
05676	~	60100	7	06374		STO	TR1		F2216560
05675	2	52400	7	06365	050075	1 10	YP1 - 1	I TET STORES	F2216570
05675 -	0	53400	2	00303	DSDRIJ	LAD	1 (0) • 2	LIST STOKES	F2216580
05010 -	0	07400	7.	05/31		TSY	STOPES.4	•	F2216500
05700 -	~	52400	7	05722	00000	137	DCDDDE - 1		F2216590
05700 -	0	53400	Ţ	02722	DSDROU	LAD	DSURSOFI		F2216600
05701 -	0	22400	4	05102		TDA	DELIASA		E3314430
05702	0	02000	ŏ	05002	00000	TZC	D5DR20	CO TO DO CEADOU IE NO TOA DI TO OC	F2216620
05703	0	10000	Ō	06022	DSDR85	125	280000	GO TO RESEARCH IF NO TRA RE TO DE	F2216630
05704 -	0	53400	Ţ	06365		LXD	XK1+1	IF IRA RI 10 DC;	F2216640
05705 -	0	53400	2	03/52		LXU	L(1),2	USE SPCOOD TO LOOK FOR	F2216650
05706	0 (07400	4	05277		15X	SPC000 • 4	IAG. IN RI	F2216660
05707	0 (02000	0	05/17		TRA	DSDK87	NOT FOUND, GO TO DSDR87	F2216670
05710 -	0	3400	1	06365		LXD	XK1+1	FOUND JUSE SUBROUTINE	F 2216680
05711	0 :	50000	1	00733		CLA	DUTAGZ , 1	GETNAM TO DETERMINE LABLE	F2216690
05712 -	0	32000	0	03772		ANA	DECMSK	OF TAG IN R1	F2216700
05713	0 4	40000	0	03700		ADD	TAG		F2216710
05714	0 (07400	4	06376		TSX	GETNAM 4		F2216720
05715	0	60100	0	06374		STO	TR1	GO TO TRAWRD AND SAVE IF NOT ZERO RETURN HERE TRANSFER IF DELTA IS THREE RETURN IF RESULT ZERO TR IF DELTA=1 FOR DELTA=2, SEPARATE TRAWRD RESULTS. IF TRANSFERS EXIST DC TO DL. SET SENSE SWITCH IF NO TRANSFERS DR TO DC. EXIT TEST ADDED TAG SWITCH IF ADDED DELTA TWO, SKIP INSERT IS TAG IN DR1 GO TO TINFOR AND RETURN FOUND NOT FOUND INSERT TAG IN R1. RETURN HERE AND STORE NAME IN TR1 FIND NAME OF TAG IN R1 LIST STORES GO TO R2 SEARCH IF NO TRA R1 TO D6 IF TRA R1 TO DC., USE SPCOOD TO LOOK FOR TAG IN R1 NOT FOUND, GO TO DSDR87 FOUND, USE SUBROUTINE GETNAM TO DETERMINE LABLE OF TAG IN R1 PUT NAME IN TR1 USE TAGADD TO INSERT	F2216730
05716	0 (02000	0	05726		TRA	DSDR89		F2216740
05717 -0	0 !	53400	1	06365	DSDR87	LXD	XR1•1	USE TAGADD TO INSERT	F2216 7 50

	05720 -0 53400 2 03751	LXD L(0)+2	TAG IN RI PUT NAME IN TRI LIST STORES GO TO R2 ROUTINE AND RETURN HERE NEXT R1. DEC CONTAINS XNEXTRI TRA IF DELTA IS 1 TRA IF DELTA IS 3 DELTA IS 2, TEST D3D1 SWITCH LIGHT OFF LIGHT ON OBTAIN INDEX OF DL IN XRA OBTAIN LEVEL OF DL AND STORE IN TEST INSTR. TAKE NEXT DOWN DO IF POSSIBLE OTHERWISE, EXIT. OBTAIN LEVEL OF THIS DO AND TEST WHETHER THIS DO IS IN DL. IF NOT, EXIT. IF IN DL, IF THIS DO D6. IF SO, TRA. IF NOT, GO BACK TO GET NEXT DO IF DO IS DC, IS NEW IN DL. IF SO, GO BACK TO STEP DOWN AGAIN IN DC. IF NOT IN DC., GO TO TEST IF IN DL INITIALIZE TL2 TO LEVEL OF DR PUT LEVEL OF DL IN TL1 PUT 1 IN XRB AND GO TO TRAWRD. IF RESUTL ZERO, GO BACK	F2216760
	05721 0 07400 4 05254	ISX IAGADU94	PUT NAME IN TRI	F2216780
	05722 -0 60000 0 06374	JIW IKI	rot mana in the	F2216790
	05723 -0 53400 1 03722	CIA RITZO		F2216800
	05724 0 50000 0 04005	ORS DOTAGZ+6+1		F2216810
	05725 -0 60200 1 00741	IXD XR1+1	LIST STORES	F2216820
	05727 -0 53400 2 03752	LXD L(1)•2	,	F2216830
	05730 0 07400 4 06431	TSX STORES+4		F2216840
	05731 0 02000 0 06022 DSDR90	TRA 2R0000	GO TO R2 ROUTINE AND	F2216850
	05732 -0 53400 4 03732 DSDR92	LXD DELTA+4	RETURN HERE	F2216860
D	05733 -3 00000 0 05602 DSDR95	TXL DSDR20+0	NEXT RI. DEC CONTAINS XNEXTRI	F2216870
•	05734 -3 00001 4 06021 DSD100	TXL DSD200 • 4 • 1	TRA IF DELTA IS 1	F2216880
	05735 3 00002 4 06021	TXH DSD200,4,2	TRA IF DELTA IS 3	F2216890
	05736 -0 76000 0 00144	MSE 100	DELTA IS 2. TEST D3D1 SWITCH	F2216900
	05737 0 02000 0 05741	TRA DSD110	LIGHT OFF	E2216020
	05740 0 02000 0 05776	TRA DSD170	COTAIN INDEX OF DI IN YPA	F2216920
:	05741 -0 53400 1 03722 DSD110	LXD XL 1	OPTAIN LEVEL OF DE 114 ANA	F2216940
	05742 0 50000 1 00740	CLA DUTAGE+391	AND STORE IN TEST INSTR.	F2216950
	05743 0 62200 0 05750	510 050120 TVI DCD118-19	TAKE NEXT DOWN DO IF POSSIBLE	F2216960
_	05744 1 77767 1 05745 050115	TVI DSD1109199	OTHERWISE EXIT	F2216970
D	05745 -3 00000 1 00021 030110	CLA DOTAG7+5+1	OBTAIN LEVEL OF THIS DO	F2216980
	05745 0 50000 1 00740 05747 -0 73400 2 00000	PDX 0+2	AND TEST WHETHER THIS DO IS	F2216990
	05750 =3 00000 2 06021 DSD120	TXL DSD200+2	IN DL. IF NOT. EXIT.	F2217000
D	05751 -0 75400 1 00000	PXD 0.1	IF IN DL,	F2217010
	05752 0 40200 0 03674	SUB XC	IF THIS DO D6.	F2217020
	05753 0 10000 0 05760	TZE DSD130	IF SO+TRA+	F2217030
	05754 0 50000 1 00734	CLA DOTAGZ+1,1	IF NOT IS THIS DO A DR.	F2217040
	05755 0 40200 0 03735	SUB RSYM1		F2217050
	05756 0 10000 0 05767	TZE DSD160	IF SO, TRA,	F2217000
	05757 0 02000 0 05744	TRA DSD115	IF NOTEGO BACK TO GET NEXT DO	F2217070
	05760 -0 63400 2 05765 DSD130	SXD DSD150+2	1F DO 15 DC)	F2217000
	05761 1 77767 1 05762 DSD140	TXI DSD145 • 1 • - 9		F2217100
D	05762 -3 00000 1 06021 DSD145	(XL DSD200+1	IS NEW IN OLA	F2217110
	05763 0 50000 1 00740	CLA DUIAGZ+D91	IF SOAGO BACK TO STEP DOWN	F2217120
_ · .	05764 -0 73400 2 00000	TYL DSD120.2	AGAIN IN DC. IF NOT IN	F2217130
D	05765 = 3 00000 2 05750 050150	TRA DSD140	DC. GO TO TEST IF IN DL	F2217140
	05766 0 02000 0 05761 05767 -0 75600 2 00000 050160	PXD 0.2	INITIALIZE	F2217150
	05770 0 60100 0 03741	STO TL2	TL2 TO LEVEL OF DR	F2217160
	05771 0 50000 0 03723	CLA LL	PUT LEVEL OF DL	F2217170
	05772 0 60100 0 03740	STO TL1	IN TL1	F2217180
	05773 -0 53400 2 03752	LXD L(1)+2	PUT 1 IN XRB	F2217190
	05774 0 07400 4 05441	TSX TRAWRD +4	AND GO TO TRAWRD.	F2217200
	05775 0 10000 0 05745	TZE DSD118	IF RESUTL ZERO, GO BACK	F2217210
	05776 -0 53400 2 03722 DSD170	LXD XL,2	:	F2217220
	05777 0 50000 0 04000	CLA BITONE		F2217230
	06000 -0 60200 2 00740	ORS DOTAGZ+5+2		F2217240 F2217250
	06001 -0 53400 2 03750	LXD LOWPOS,2	:	F2217260
	00002 0 00000 0 00002			F2217270
	06003 0 60100 2 03721	STO X1+5,2 STO X1+6,2		F2217280
	06004 0 60100 2 03722 06005 2 00001 2 06006	TIX DSD175,2,1		F2217290
	06005 2 00001 2 06006	110 0002107274		:

								,	•			E2217000
	06006 -	-0	75400	2	00000	DSD175	PXD	0.2 DORC				F2217300 F2217310
	06007 -	-0	60200	0	03727		ORS	DORC				F2217320
	06010	0	76000	0	00006		COM					F2217330
	06011	0	32000	0	03731		ANS	DOSOBS				F2217340
	06012	0	50000	0	03674		CLA	XC				
	06013	0	60100	0	03722		STO	XL				F2217350
	06014	0	50000	0	03675		CLA	DORC DOSUBS XC XL LC LL L(1) NRDS DELTA DS4VAL				F2217360
	06015	0	60100	0	03723		STO	LL			•	F2217370
	06016	0	50000	٥	03752		CLA	L(1)				F2217380
	06017	õ	60100	ō	03726		STO	NRDS				F2217390
	06020	ŏ	60100	ň	03732		STO	DELTA				F2217400
	06020	ň	02000	ŏ	06123	DSD200	TRA	DS4VAL				F2217410
	00021	•	02000	٠	00123	000200		RELCON DELTA	THREE	SECOND	LEVEL DEFINITION.	F2217420
	06022 -	-0	E2400	1	06265	280000	I XD	XR1.1	• • • • • • • • • • • • • • • • • • • •		PUT INDEX OF R1 IN XRA	F2217430
	00022	-0	50000	Ť	06365	2110000	CLA	I R 1			OBTAIN LEVEL OF R1	F2217440
	06023	ŏ	50000	Ň	06366		STD	200030			INITIALIZE TEST INSTR.	F2217450
	06024	v	02200	Ÿ	00031	20010	TYI	20020 -10			TAKE NEXT DOWN DO IF POSSIBLE	F2217460
	06025	Ŧ	11161	ï	06026	20010	TVI	DCDDD3-1			EXIT IF PARTLY FULL DOTAG EXHAUSTE	DF2217470
D	06026	-3	00000	Ţ	05/32	2KUU2U	IXL	DOUR 92 9 1			ORTAIN LEVEL OF DO	F2217480
	06027	0	50000	1	00740		CLA	DOTAGZ+591			DUT IN YOU AND COMPARE WITH	F2217490
	06030 -	-0	73400	2	00000		PDX	0+2			TO THE TE NEW DO NOT IN VOI.	F2217500
D	06031 -	-3	00000	2	05732	2R0030	TXL	DSDR92+2			EKISEXI: IF NEW DO NO! IN AKIS	F2217500
	06032	0	50000	1	00734		CLA	DOTAGZ+1,1			OBTAIN SYMBOL OF NEW DOS	F2217510
	06033	0	40200	0	03736		SUB	RSYM2			COMPARE WITH RSYM2.	F2217320
	06034 -	-0	10000	0	06025		TNZ	2R0010			IF NOT RSYM2,GO BACK.	F2217530
	06035 -	-0	63400	1	06367		SXD	XR2,1			SAVE INDEX	F2217540
	06036 -	-0	75400	2	00000		PXD	0,2			AND LEVEL	F2217550
	06037	0	60100	0	06370		STO	LR2			OF R2•	F2217560
	06040	0	60100	0	03741		STO	TL2			PREPARE FOR TSX TO TRAWRD.	F2217570
	06041	Õ	50000	Ō	03675		CLA	LC.			TO TEST FOR TRANSFERS	F2217580
	06042	ñ	60100	0	03740		STO	TL1			FROM R2 TO DS+	F2217590
	06042	-ñ	53400	2	03752		LXD	L(1)+2				F2217600
	06045	ŏ	07400	4	05441		TSX	TRAWRD • 4			IF NO TRANSFERS.GO BACK	F2217610
	06044	ŏ	10000	'n	06026		TZF	2R0020			FOR NEXT DO.	F2217620
	06045	٠٥	63600	1	06072		SXD	2R0065 • 1				F2217630
	06046	-0	40100	†	06272		STO	D3D2			TEMPORARY STORAGE	F2217640
	06047	Š	60100	~	00313		CLA	1.1361			PUT 36 IN ACC	F2217650
	06050	ŏ	60300	Š	02101		SHE	L D 1			SUB LEVEL OF RI.	F2217660
	06051	ŏ	77100	Ŏ	00200		ADS	18			SHIFT RESULT AND	F2217670
	06052	Ŏ	11100	ò	00022		STA	200050				F2217680
	06053	Ü	62100	Ŏ	06056		SIA	20000			PUT ZERO IN MO.	F2217690
	06054	0	56000	Ó	03/51		CLA	F101			ORTAIN TRAWRD RESULTA	F2217700
	06055	0	50000	0	06373		CLA	0302			DEDECOM CEDADATION	F2217710
A	06056	0	76500	0	00000	2R0050	LKS				AND CAVE	F2217720
	06057	0	60100	0	06372		\$10	D3D1			AND SAVE	F2217720
	06060 •	-0	60000	0	06373		STQ	D3D2			RESULTS.	F2217730
	06061	0	50000	0	06372		CLA-	D3D1			IF D3D1 IS ZERO+THEN D3D2	F2217740
	06062 -	-0	10000	0	06065		TNZ	2R0060			IS NOT ZERO	F2217750
	06063	0	50000	0	06371		CLA	D2D1			IF D2D1 IS ZERO.	F2217760
	06064	0	10000	0	06121		TZE	2R0200			TR TO GET NEX DO	F2217770
	06065	-0	53400	1	06367	2R0060	LXD	XR2 • 1			LEVEL DEFINITION. PUT INDEX OF R1 IN XRA OBTAIN LEVEL OF R1 INITIALIZE TEST INSTR. TAKE NEXT DOWN DO IF POSSIBLE EXIT IF PARTLY FULL DOTAG EXHAUSTE OBTAIN LEVEL OF DO PUT IN XRB AND COMPARE WITH LR1, EXIT IF NEW DO NOT IN XR1. OBTAIN SYMBOL OF NEW DO, COMPARE WITH RSYM2. IF NOT RSYM2, GO BACK. SAVE INDEX AND LEVEL OF R2. PREPARE FOR TSX TO TRAWRD. TO TEST FOR TRANSFERS. FROM R2 TO DS. IF NO TRANSFERS, GO BACK FOR NEXT DO. TEMPORARY STORAGE PUT 36 IN ACC SUB LEVEL OF R1, SHIFT RESULT AND PUT ZERO IN MQ, OBTAIN TRAWRD RESULT, PERFORM SEPARATION AND SAVE RESULTS. IF D3D1 IS ZERO, THEN D3D2 IS NOT ZERO IF D2D1 IS ZERO, TR TO GET NEX DO SEARCH FOR TAG IN R2 FOUND, TR TO OBTAIN NAME NOT FOUND, LOOK FOR DELTA TWO INSERT IN ADDED TAG TABLE. FOUND, NAME IN ACC.	F2217780
	06066	Ó	07400	4	05411		TSX	TINFOR • 4			IN R2	F2217790
	06067	ō	02000	٥	06100		TRA	2R0080			FOUND, TR TO OBTAIN NAME	F2217800
	06070 -	-0	53400	1	06367		LXD	XR2+1			NOT FOUND, LOOK FOR DELTA TWO	F2217810
	06071	ñ	07400	ā	06413		TSX	ADDSER • 4			INSERT IN ADDED TAG TABLE.	F2217820
_	06072 -	-2	00000	0	06105	280065	TXI	2R0090 •0			FOUND NAME IN ACC.	F2217830
D	00072 -	- 5	00000	J	00100	-K0000	, ,,,,,,	2				

06073 -0 53400 1 06367	LXD XR2+1	NOT FOUND ADD TAG IN TABLE OF ADDED TAGS PUT NAME IN TR2 SEARCH FOR NAME PUT NAME IN TR2 LIST STORES. IF ANY TR. FOR TRANSFERS D3D1 TEST TR D2D1 LIST STORES RETURN FOR NEXT R2 OBTAIN FORVAL EMPTY INDICATOR. EXIT IF FORVAL EMPTY PRESET WORD E2 FOR LIST ROUTINE. TAU TAG AND NAME LIGHT 100 OFF THESE INSTRUCTIONS SET UP FOR DRUM SEARCH. OBTAIN LOCATION FO FIRST FORVAL DRUM ENTRY. STORE IN LDA ADDRESS. PUT ZERO IN XRA AND GO TO SEARCH ROUTINE. UPON RETURN. ECIT UNLESS DELTA IS 2. IN WHICH CASE, CONTINUE TURN INDICATOR LIGHT ON THE FOLLOWING INSTR. SET UP TWO ADDITIONAL RANGES FOR SEARCHING, THOSE FORMULAS OUTSIDE OF DC BUT WITHIN DL. IN THESE SPECIAL RANGES AS SOON AS ONE ENTRY IS FOUND IN EITHER RANGE,	F2217840
06074 -0 53400 2 03751	LXD L(0),2	ADD TAG	F221783U
06075 0 07400 4 05254	TSX TAGADD 44	IN TABLE OF ADDED TAGS	F221786U
06076 -0 60000 0 06375	STQ TR2	PUI NAME IN IKZ	F2217010
06077 0 02000 0 06106	TRA ZROIOO	CEADCH .	F2217000
06100 -0 53400 1 06367 2R008	30 LXD XR2,1	SEARCH	F2217000
06101 0 50000 1 00733	CLA DOTAGZ 1	FOR	F2217010
06102 -0 32000 0 03772	ANA DECMSK	NAME	F2217020
06103 0 40000 0 03700	ADD TAG		F2217920
06104 0 07400 4 06376	ISX GEINAM94	DUT MANS IN TOO	F2217040
06105 0 60100 0 06375 2R009	90 SIO IR2	PUI NAME IN IKZ	F2217950
06106 0 50000 0 06372 2R010	JO CLA D3D1	EAR TRANSFERS	F2217060
06107 0 10000 0 06113	126 280150	DON IMMISTERS	F2217070
06110 -0 53400 1 06367	LXD AK291	V3V1	F2217980
06111 -0 53400 2 03753	TCV STORES A	·	F2217990
06112 0 07400 4 06431	10 CIA D2D2	TEST TO	F2218000
06113 0 50000 0 06373 2R01:	T2E 200200	D2D2	F2218010
06114 0 10000 0 06121	12E 2K0200	TECT TO	F2218020
06115 0 50000 0 06371	T7E 200200	0201	F2218030
06115 0 10000 0 06121	12C 2R0200	LIST STORES	F2218040
06117 -0 53400 1 06367	TCY CTODYY.4	EIOI DIONES	F2218050
06120 0 07400 4 06447	100 1 YD 280065 1	RETURN FOR	F2218060
00121 -0 33400 1 00072 21021	TRA 280020	NEXT R2	F2218070
06122 0 02000 0 00028	DRUM SFARCH OF FORVAL	ALAT NE	F2218080
06122 -0 53400 1 04112 0547	AL LXD FND80+1	OBTAIN FORVAL EMPTY INDICATOR.	F2218090
06124 =3 00000 1 06207	TXL DS4V20+1+0	EXIT IF FORVAL EMPTY	F2218100
06125 0 50000 0 03700	CLA TAG	PRESET WORD E2 FOR LIST	F2218110
06126 0 76700 0 00022	ALS 18	ROUTINE . TAU TAG AND NAME	F2218120
06127 0 40000 0 03701	ADD TS	•	F2218130
06130 0 60100 0 05064	STO E2		F2218140
06131 -0 76000 0 00144	MSE 100	LIGHT 100 OFF	F2218150
06132 0 76100 0 00000	NOP		F2218160
06133 0 50000 0 03676	CLA ALPHA	THESE INSTRUCTIONS SET UP	F2218170
06134 0 60100 0 03742	STO A	FOR DRUM SEARCH.	F2218180
06135 0 50000 0 03677	CLA BETA		F2218190
06136 0 40000 0 03765	ADD L(1)A		F2218200
06137 0 60100 0 03743	STO B		F2218210
06140 0 50000 0 06363	CLA 4VALAD	OBTAIN LOCATION FO FIRST	F2218220
06141 0 60100 0 06362	STO FORAD	FORVAL DRUM ENTRY STORE IN	F2218230
06142 -0 53400 1 03751	LXD L(0):1	LDA ADDRESS+ PUT ZERO	F2218240
06143 0 07400 4 06210	TSX FSXX•4	IN XRA AND GO TO	F2218250
06144 -0 53400 4 03732	LXD DELTA+4	SEARCH ROUTINE. UPON RETURN.	F2218260
06145 3 00 002 4 06207	TXH DS4V20+4+2	ECIT UNLESS DELTA IS 2.	F2218270
06146 -3 00001 4 06207	TXL DS4V20+4+1	IN WHICH CASE, CONTINUE	F2218280
06147 0 76000 0 00144	PSE 100	TURN INDICATOR LIGHT ON	F2218290
06150 0 50000 0 03743	CLA B	INE PULLOWING INSING	F2210310
06151 0 60100 0 03744	SIU NEXTA	SEI UP INU ADDITIONAL	£2210220
06152 0 50000 0 03742	CLA A	THOSE CODMINAS OFFICE	E2210220
06153 0 60100 0 03743	\$10 B	AE DO BUT WITHIN DE	E2210240
06154 -0 53400 2 03722	LXU XL92	THE THESE SOCIAL DANGES	F2210250
06155 0 50000 2 00733	CLA DUTAGE #2	AC COOM AC ONE ENTRY TO	F2210240
06156 0 73400 2 00000	PAX U92	MO DOUR MO UNE ENTRY TO	F2210270
06157 -0 32000 0 03//2	ANA DECMON	I COMO IN EITHER RANGES	1 22103(0

06160	^	60100	^	02742		STO	Α .		TO RE DONE.	F2218380
		75400					0 • 2		10 DE DUNET	F2218390
		40000					L(1)A			F2218400
		60100					LASTB			F2218410
• •	_	50000	-			CLA	A			F2218420
							Ê(1)	•		F2218430
		40000				SUB	E(1)			F2218440
06166		40200					DS4V10		IE THIS DANGE IS EMPTY.	F2218450
		10000					4VALAD		CAID CEADOR	F2218460
		50000					FORAD		IF THIS RANGE IS EMPTY, SKIP SEARCH. GO TO SEARCH ROUTINE A AND B FOR SECOND SPECIAL RANGE. EXIT SAVE TSX INDEX ERROR COUNTER FIND FIRST OR NEXT ADDRESS IN FORVAL, PUT A IN ACC.	F2218470
		60100					L(0) +1			F2218480
		53400					ECVV.A		CO TO SEADON PONTINE	F2218490
06173	Ü	07400	4	06210	254410		FSXX #4		A AND B EOD SECOND	F2218500
					DS4V10	CLA	NEATA		CDECTAL DANGE.	F2218510
		60100				STO	A		SPECIAL RANGE	£2210510
		50000					LASTB			F2218520
•	_	60100	-			STO	В			F2210930
		40200				SUB	A			F2210340
06201		10000					DS4V20			F2210220
		76000					100		•	F221020U
		50000					4VALAD			F2210510
		60100					FORAD			F221838U
		53400					L(0)+1			F2218390
06206	0	07400	4	06210			FSXX • 4			F2218600
06207	0	02000	0	05555	DS4V20		RELEND		EXIT	F221861U
06210	-0	63400	4	06231	FSXX		FS28+4		SAVE TSX INDEX	F2218620
		50000			FS00		L(5)	INITIALIZE		F2218632
06212	0	62200	0	06361		STD	4VLHL8		ERROR COUNTER	F2218640
06213	0	76200	0	00302	FS05	RDS	194			F2218650
06214	-0	53400	2	06300		LXD	BS71 • 2			F2218660
06215	0	46000	0	06362		LDA	FORAD		FIND FIRST OR NEXT ADDRESS	F2218670
06216	0	50000	0	03742		CLA	A		IN FORVAL, PUT A IN ACC.	F2218680
06217	0	70000	0	06472	FS10	CPY	BLOCK		COPY FORMULA NR.	F2218690
		04000				TLQ	FS30		A GREATER THAN FOR NR + TRA+	F2218700
06221	0	70000	0	06473		CPY	BLOCK+1		A LESS+COPY BALANCE OF	F2218710
		50000				CLA	В		ENTRY, PUT B IN ACC,	F2218720
06223	0	70000	0	06474		CPY	BLOCK+2		ADJUST XRA FOR THIS	F2218730
06224	. 1	00003	1	06225		TXI	F\$20:1:3		ENTRY.	F2218740
06225	0	70000	2	06566	FS20	CPY	BLOCK+60,2		COPY NEXT FOR. NR.	F2218750
06226	0	04000	0	06235		TLQ	FS40		B GREAT THAN FOR. NR. TRA.	F2218760
06227	0	40200	0	06472	FS25	SUB	BLOCK		TEST FIRST ENTRY.	F2218770
		12000				TPL	FS50		B GREATER THAN FOTRA	F2218780
06231	-3	00000	0	06353	F528	TXL	BS99•0		B LESS THAN F.EXIT	F2218790
06232	0	70000	0	06473	FS30	CPY	BLOCK+1		COPY BALANCE OF ENTRY GO	F2218800
06233	0	70000	0	06474		CPY	BLOCK+2		BACK IF POSSIBLE TO CONTINUE	F2218810
06234	1	00003	1	06217		TXI	FS10,1,3		SEARCH FOR BEGINNING OF RANGE,	F2218820
06235	0	70000	2	06567	FS40	CPY	BLOCK+61+2		THIS ENTRY IS IN RANGE,	F2218830
06236	0	70000	2	06570		CPY	BLOCK+62,2		CONTINUE READING IN ENTRIES	F2218840
06237	2	00003	2	06225		TIX	FS20+2+3		UNTIL BLOCK FULL OR RANGE	F2218850
06240	-0	53400	2	03751		LXD	L(0)+2		EXCEEDED.	F2218860
06241	ō	02000	0	06227		TRA	F\$25			F2218870
06242	-0	63400	2	06255	FS50	SXD.	CS20,2			F2218880
06243	-0	63400	2	06265		SXD	B\$40+2		FIND FIRST OR NEXT ADDRESS IN FORVAL, PUT A IN ACC. COPY FORMULA NR. A GREATER THAN FOR NR., TRA. A LESS, COPY BALANCE OF ENTRY, PUT B IN ACC, ADJUST XRA FOR THIS ENTRY. COPY NEXT FOR. NR. B GREAT THAN FOR. NR., TRA. TEST FIRST ENTRY. B GREATER THAN F, TRA B LESS THAN F, EXIT COPY BALANCE OF ENTRY, GO BACK IF POSSIBLE TO CONTINUE SEARCH FOR BEGINNING OF RANGE, THIS ENTRY IS IN RANGE, CONTINUE READING IN ENTRIES UNTIL BLOCK FULL OR RANGE EXCEEDED.	F2218890
06244	-0	63400	1	06262		SXD	B\$25+1			F2218900
06245	-0	53400	2	03762	CS00	LXD	L(60)+2		THIS ROUTINE COMPUTES	F2218910
40243	•	22,00	_				_			

		•		
	06246 m0 50000 2 06566 CS10	CAL BLOCK+60+2	THE CHECK SUMS OF THE	F2218920
	06247 0 36100 2 06567	ACL BLOCK+61.2	ENTRIES AND COMPARES	F2218930
	06250 0 60200 0 06364	SLW AVALES		F2218940
	06250 0 00200 0 00304	CLA AVALES	THEM WITH THE GIVEN CHECK	F2218950
	06251 0 50000 0 06564	SUR RI OCK+62+2	SUMS	F2218960
	06252 0 40200 2 06570	TAIZ AVI HI T	TRA TO EXIT IF BAD ENTRY.	F2218970
	06253 -0 10000 0 06355	TYL C520-22	THE TO EAST OF SHOWING	F2218980
_	06254 1 11115 2 06255	TVU CC10-2	CONTINUE WITH RSOO	F2218990
D	06255 3 00000 2 06246 CS20	1XH C31092	THIS POLITIME SEAPCHES	F2219000
	06256 0 50000 0 03735 BS00	CLA RSIMI	THE CTORACE PLACE FOR	F2219010
	06257 -0 53400 4 03732	LXD DELIA 4	DEVALUAND DEVAL TE DELTA	F2210020
	06260 -0 53400 2 03762 B510	LXD L(60),2	RSTMITARD RSTM2 IF DELIA	F2210020
	06261 0 34000 2 06567 BS20	CAS BLOCK+61•2	15 INKEE.	F2217030
D ·	06262 -3 00000 0 06264 BS25	TXL BS30.0		F2210050
	06263 0 02000 0 06272	TRA BS60	EQUALITY FOUND, TRA.	F2219050
	06264 1 77775 2 06265 BS30	TXI BS40,2,-3	RE-ENTRY	F2219060
D	06265 3 00000 2 06261 BS40	TXH BS20,2		F2219070
-	06266 -3 00002 4 06275 BS50	TXL BS70,4,2		F2219080
	06267 -0 53400 4 03751	LXD L(0).4		F2219090
	06270 0 50000 0 03736	CLA RSYM2		F2219100
	06271 0 02000 0 06260	TRA BS10		F2219110
	06272 -0 76000 0 00144 BS60	MSE 100	TEST TO SEE IF	F2219120
	06273 0 02000 0 06307	TRA BS80	NORMAL SEARCH, OR IF	F2219130
	06274 0 02000 0 06327	TRA BS90	SPECIAL CASE OF DELTA TWO.	F2219140
	06275 =0 53400 2 06265 BS70	LXD BS40+2	BLOCK SEARCH DONE. IF BLOCK	F2219150
	06275 0 55400 2 06265 5010	TXH 8599+2+0	WAS NOT FULL. EXIT.	F2219160
	06210 5 00000 2 00555	LXD BS25 • 1	OTHERWISE, PREPARE TO CONTINUE	F2219170
	06277 -0 55400 1 00202	TXI BS72.1.57	SEARCH. IF MORE ENTRIES IN FORVAL.	F2219180
	06300 1 00071 1 06301 0371	TYH R5094141499		F2219190
	06301 3 02133 1 00333 5312	PYD 041	AND COMPUTE	F2219200
	06302 -0 73400 1 00000	ADS 18	NEW FORVAL	F2219210
	06303 0 77100 0 00022	ADD AVALAD	ADDRESS	F2219220
	06304 0 40000 0 06363	STO FORAD	no made	F2219230
	06305 0 60100 0 06362	TYL ECON-O	GO BACK TO CONTINUE SEARCH	F2219240
D	06306 -3 00000 0 06211 BS78	CTO CYALES	PSYM FOUND ARRANGE TO	F2219250
	06307 0 60100 0 06364 BS80	SIO AVALES	CAVE THIREYED SHRSCRIPTS.	F2219260
	06310 -0 53400 1 03722	LXD XL91	SAVE TRUENED SUBSERIFIES	F2210270
	06311 0 50000 0 04000	CLA BITONE		F2210280
	06312 -0 60200 1 00740	ORS DOTAG2+5 1		F2230200
	06313 -0 53400 1 03674	LXD XC+1	DEVE FOUND ES OPENTOUS V	F2210200
	06314 -0 60200 1 00740	ORS DOTAGZ+5+1	RSTM FUUND SEZ PREVIOUSET	F2219300
	06315 0 50000 2 06566	CLA BLOCK+60+2	PREPARED NOW PREPARE	F2219310
	06316 0 60100 0 05063	STO E1	EISAVE ACCIARDIANCS	F2219920
	06317 0 50000 0 05067	CLA TSXCOM	AND LIST.	F2219330
	06320 -0 63400 2 06326	SXD BS85.2	AFTER LISTING,	F2219340
	06321 -0 63400 4 06306	SXD BS78.4	RESTORE ACC + XRB + XRC	F2219350
	06322 0 07400 4 05025	TSX LIST,4	AND RETURN TO CONTINUE	F2219360
	06323 -0 53400 2 06326	LXD BS85,2	SEARCH.	F2219370
	06324 -0 53400 4 06306	LXD BS78,4		F2219380
	06325 0 50000 0 06364	CLA 4VALES	THE CHECK SUMS OF THE ENTRIES AND COMPARES THEM WITH THE GIVEN CHECK SUMS. TRA TO EXIT IF BAD ENTRY. CONTINUE WITH BSOO THIS ROUTINE SEARCHES THE STORAGE BLOCK FOR RSYM1, AND RSYM2 IF DELTA IS THREE. EQUALITY FOUND, TRA. RE-ENTRY TEST TO SEE IF NORMAL SEARCH, OR IF SPECIAL CASE OF DELTA TWO. BLOCK SEARCH DONE. IF BLOCK WAS NOT FULL, EXIT. OTHERWISE, PREPARE TO CONTINUE SEARCH, IF MORE ENTRIES IN FORVAL. AND COMPUTE NEW FORVAL ADDRESS GO BACK TO CONTINUE SEARCH RSYM FOUND, ARRANGE TO SAVE INDEXED SUBSCRIPTS. RSYM FOUND, EZ PREVIOUSLY PREPARED, NOW PREPARE E1, SAVE ACC, XRB, XRC, AND LIST. AFTER LISTING, RESTORE ACC, XRB, XRC AND RETURN TO CONTINUE SEARCH. SPECIAL CASE, DELTA TWO, PUT IN BIT TO SAVE SL	F2219390
TD	06326 -3 00000 0 06264 BS85	TXL BS30		F2219400
10	06327 -0 53400 2 03722 BS90	LXD XL+2	SPECIAL CASE, DELTA TWO,	F2219410
	06330 0 50000 0 04000	CLA BITONE	PUT IN BIT TO SAVE SL	F2219420
	06331 -0 60200 2 00740	ORS DOTAGZ+5+2	SPECIAL CASE, DELTA TWO, PUT IN BIT TO SAVE SL OBTAIN INDEX QUANTITY 1, 3, 5, FOR XL,	F2219430
	06332 -0 53400 2 03750	LXD LOWPOS.2	OBTAIN INDEX QUANTITY 1, 3, 5.	F2219440
	UD332 -U 334UU 2 U373U	CIA 1 (0)	FOR XL.	F2219450
	06333 0 50000 0 03751	SER ETVI	· · ·	

```
SET PROPER X AND L TO ZERO,
                                                                                                                                        F2219460
 06334 0 60100 2 03721
                                            STO X1+5,2
                                                                                                                                        F2219470
                                           STO X1+6+2
TIX BS91+2+1
PXD 0+2
ORS DORC
COM
AND DOSUBS

ADJUST 1+3+5 TO 1+2+4+
PUT IN ACC
AND PUT BIT IN DORC
REMOVE BIT
FROM DOSUBS
                                           STO X1+6+2
 06335 0 60100 2 03722
                                                                                                                                        F2219480
06336 2 00001 2 06337
                                                                                                                                        F2219490
 06337 -0 75400 2 00000 BS91
                                                                                                                                        F2219500
 06340 -0 60200 0 03727 BS92
 06341 0 76000 0 00006
                                                                                                                                        F2219520
 06342 0 32000 0 03731
06343 0 50000 0 03674 CLA XC
06344 0 60100 0 03722 STO XL
06345 0 50000 0 03675 CLA LC
06346 0 60100 0 03723 STO LL
06347 0 50000 0 03752 CLA L(1)
06350 0 60100 0 03726 STO NRDS
06351 0 60100 0 03732 STO DELTA
06352 0 02000 0 06207 TRA DS4V20
                                                                                                                                        F2219530
                                                                                                                                        F2219540
                                                                                                                                        F2219550
                                                                                                                                        F2219560
                                                                                                                                        F2219570
                                                                                                                                        F2219580
                                                                                                                                        F2219590
                                                                                      EXIT
06352 0 02000 0 06207 TRA DS4V20 EXIT
06353 -0 53400 4 06231 BS99 LXD FS28,4 EXIT FROM FSXX ENTRY
06354 0 02000 4 00001 TRA 1,4
06355 -0 53400 2 06361 4VLHLT LXD 4VLHL8,2
06356 2 00001 2 06360 TIX 4VLHL4,2,1 CHECK SUM ROUTINE, THE BLOCK
                                                                                                                                        F2219600
                                                                                                                                        F2219610
                                                                                                                                        F2219630
                                                                                                                                        F2219640
06357 0 07400 4 00004 4VLHL2 TSX DIAG.4 WILL BE REREAD 5 TIMES. (ERROR. GO TO DIAGNOSTIC.) F2219655
06360 -0 63400 2 06361 4VLHL4 SXD 4VLHL8,2
06361 -3 00000 0 06213 4VLHL8 TXL FS05,0
06362 0 00000 0 00000 FORAD HTR
DRUM ADDRESS FOR LDA INSTR.
                                                                                                                                        F2219670
06362 0 00000 0 00000 FORAD HTR
06363 0 00000 0 00312 4VALAD HTR 202
06364 0 00000 0 00000 4VALES HTR
                                                                                                                                        F2219680
                                                                                                                                        F2219690
                                                                       E+S+
                                                                                                                                        F2219700
                                                                                                                                        F2219710
 06365 0 00000 0 00000 XR1
                                                                                                                                        F2219720
 06366 0 00000 0 00000 LR1
                                                                                                                                        F2219730
 06367. 0 00000 0 00000 XR2
                                                                                                                                        F2219740
 06370 0 00000 0 00000 LR2
                                                                                                                                        F2219750
 06371 0 00000 0 00000 D2D1
                                                                                                                                        F2219760
 06372 0 00000 0 00000 D3D1
                                                                                                                                        F2219770
 06373 0 00000 0 00000 D3D2
                                                                                                                                        F2219780
 06374 0 00000 0 00000 TR1
                                                                                                                                        F2219790
 06375 0 00000 0 00000 TR2
SUBROUTINE GETNAM

06376 -0 53400 1 04011 GETNAM LXD NAMXX+1

06377 -0 63400 1 06406 SXD GETN2O+1

06400 0 53400 1 04011 LXA NAMXX+1

06401 0 02000 0 06406 TRA GETN2O

06402 0 34000 1 07301 GETNO5 CAS NAMZ+1

06403 0 02000 0 06405 TRA GETN1O

06404 0 02000 0 06401 TRA GETN3O

06405 1 77776 1 06406 GETN1O TYL GETN3O-1-2
                                                                                                                                        F2219800
                                               SUBROUTINE GETNAM
                                                                                                                                       F2219810
                                                                                                                                       F2219820
                                                                                                                                       F2219830
                                                                                                                                       F2219840
                                                                                                                                       F2219850
                                                                                                                                     F2219860
                                                                                                                                      F2219870
                                                                                                                                        F2219880
 06405 1 77776 1 06406 GETN10 TXI GETN20,1,-2
 06406 3 00000 1 06402 GETN20 TXH GETN05,1
                                                                                                                                        F2219890
                                                                                                                                        F2219900
 06407 -0 32000 0 03773
                                           ANA ADDMSK
                                                                                                                                        F2219910
 06410 0 02000 4 00001
                                           TRA 1.4
 06411 0 50000 1 07302 GETN30 CLA NAMZ+1+1
06412 0 02000 4 00001 TRA 1+4
                                                                                                                                        F2219920
                                                                                                                                        F2219930
                                                                                                                                        F2219940
                                             SUBROUTINE ADDSER
                                                                                                                                        F2219950
 06413 -0 75400 1 00000 ADDSER PXD 0+1
06414 0 40000 0 03700 ADD TAG
06415 -0 53400 1 04006 LXD ADTXX:1 PREPARE XRA AND DEC 0
06416 -0 63400 1 06425 SXD ADS030:1 ADS030 FOR TABLE SEARCH:
06417 0 53400 1 04006 LXA ADTXX:1
                                                                                                                                       F2219960
                                                                                                                                       F2219970
                                                                                                                                       F2219980
                                                                                                                                        F2219990
```

	06420	0	02000	0	06425		TRA	ADS030			FIRST WORD FOUND NOT FOUND STORXX THIS ROUTINE PREPARES AN ENTRY FOR TABLE TRASTO AND USES LIST TO ENTER THE ENTRY ON THE PROPER DRUM TABLE. IF SPCOOD IS USED BY THE ROUTINE, MANY ENTRIES MAY BE MADE IN TRA STO. IF DELTA EQUALS ONE OR TWO, THIS ROUTINE IS ENTERED THROUGH STORES WITH C(XRB) ZERO. IF DELTA IS THREE AND WE ARE WORKING ON TRANSFERS DR2 TO DS, THEN STORES ENTRY IS USED WITH C(XRB)=2 IF DELTA=3,TRA DR1 TO DS, STORES ENTRY IS USED WITH C(XRB)=1 IF DELTA=3,TRA DR2 TO DR1, ENTRY STORXX IS USED. C(XRB) NOT USED. LIST ROUTINE IS USED IN EVERY CASE, MAKING ONE TRASTO ENTRY, EXCEPT FOR CASE DELTA=3,TRA DR1 TO DS, C(XRB)=1, WHEN SPCOOD IS USED. LIST ROUTINE USED	F2220000
	06421	0	34000	1	07135	ADS010	CAS	ADTAGZ + 1				F2220010
	06422	0	02000	0	06424		TRA	ADS020				F2220020
	06423	0	02000	0	06427		TRA	ADS040			FIRST WORD FOUND	F2220030
	06424	1	77776	1	06425	ADS020	TXI	ADS030,1,-2				F2220040
	06425	3	00000	1	06421	ADS030	TXH	ADS010:1				F2220050
	06426	0	02000	4	00002		TRA	2,4			NOT FOUND	F2220060
	06427	0	50000	1	07136	ADS040	CLA	ADTAGZ+1:1				F2220070
	06430	. 0	02000	4	00001	ADS050	TRA	1:4			•	F2220080
								SUBROUTINES ST	ORES	AND S	STORXX	F2220090
	06431	-0	63400	4	06464	STORES	SXD	ST040•4			THIS ROUTINE PREPARES	F2220100
	06432	0	50000	0	06366		CLA	LR1			AN ENTRY FOR TABLE TRASTO	F2220110
	06433	0	77100	0	00022		ARS	18			AND USES LIST TO ENTER	F2220120
	06434	0	40000	0	03675		ADD	LC			THE ENTRY ON THE PROPER	F2220130
	06435	0	60100	0	05064		STO	E2			DRUM TABLE. IF SPCOOD	F2220140
	06436	0	50000	0	06374		CLA	TR1			IS USED BY THE ROUTINE.	F2220150
	06437	-3	00001	2	06441		TXL	ST020,2,1			MANY ENTRIES MAY BE MADE	F2220160
	06440	0	50000	0	06375		CLA	TR2			IN TRA STO.	F2220170
	06441	ŏ	76700	ō	00022	ST020	ALS	18			IF DELTA EQUALS ONE OR TWO.	F2220180
	06442	0	40000	Õ	03701		ADD	TS			THIS ROUTINE IS ENTERED	F2220190
	06443	ō	60100	ō	05065		STO	E3			THROUGH STORES WITH C(XRB)	F2220200
	06444	-3	00000	2	06460		TXL	ST035+2+0			ZERO. IF DELTA IS THREE	F2220210
	06445	-3	000001	2	06465		TXL	ST050,2,1			AND WE ARE WORKING ON	F2220220
	06446	õ	02000	ō	06460		TRA	ST035			TRANSFERS DR2 TO DS.THEN	F2220230
	06447	-0	63400	Ā	06464	STORXX	SXD	ST040.4			STORES ENTRY IS USED WITH	F2220240
	06450	ñ	50000	ň	06370		CLA	LR2			C(XRB)=2	F2220250
	06451	õ	77100	õ	00022		ARS	18			IF DELTA=3.TRA DR1 TO DS.	F2220260
	06452	ñ	40000	n	06366		ADD	LR1			STORES ENTRY IS USED WITH	F2220270
	06452	ŏ	60100	ŏ	05064		STO	E2			C(XRB)=1	F2220280
	06454	õ	50000	ñ	06375		CLA	TR2			IF DELTA=3.TRA DR2 TO DR1.	F2220290
	06455	ň	76700	ñ	00022		ALS	18			ENTRY STORXX IS USED.	F2220300
	06456	ň	40000	ñ	06374		ADD	TR1			C(XRB) NOT USED.	F2220310
	06457	ŏ	40100	ň	05065		STO	F3			LIST ROUTINE IS USED IN	F2220320
	00431	•	00100	۰	0,000		•.•				EVERY CASE, MAKING ONE	F2220330
											TRASTO ENTRY EXCEPT FOR	F2220340
											CASE DELTA=3.TRA DR1 TO DS.	F2220350
											C(XRB)=1.WHEN SPCOOD IS USED.	F2220360
		•	50000	,	00722	ST025	CLA	DOTAGZ A 1			LIST ROUTINE USED	F2220370
	00400	0	60100		06063	31033	STO	E1				F2220380
	00401	ŭ	00100	Ď	05003		CLA	TRASTO				F2220390
	00402	0	27420	v	05070		TCY	1157.4				F2220400
	06463	0	07400	*	05025	STO/O	TYI	ST100+0				F2220410
	06464	-3	00000	Ŏ	00410	51040	1 1	1 (2) - 2			SPCOOD LISED.	F2220420
	06465	-0	53400	~	05133	51050	CLA	TRASTO			31 6000 03204	F2220430
•	06466	Ö	50000	ú	05070		TEV	ERC000 - 4			•	F2220440
	06467	Ö	07400	4	05211	CT100	127	5704044			FYIT	F2220450
	06470	-0	23400	4	00001	21100	TDA	1.4			Ene (F2220460
	06471	O	02000	4	00001	DIOCK	DCC	40				F2220470
					004/2	BLUCK	000	4056				F2220480
					01130		UKG	MASTED DECO	PD CA	PD -	C(XRB)=1.WHEN SPC000 IS USED. LIST ROUTINE USED SPC000 USED. EXIT FN029 ROUTINE PPONG SETS UP DRUM ONE FOR	F2220485
		_	50/55	_		ODONG	1 40	PGSO-2	ND CA	NO =	ROUTINE PPONG SETS UP DRUM ONE FOR	F2220490
	01120	-0	22400	~	01110	770110	LAU	. 00072				F2220500
			02000					PG10			L THO_LOHOTHOS	F2220510
	07732	-0	53400	2	07/67			PG70 • 2				F2220520
	07733	-0	53400	4	07771	PG10	LXD	PG90•4				. 2220320

```
WRS 193
                                                                                             F2220530
     0 76600 0 00301 PG15
07734
                                                                                             F2220540
                             LXD PG95+1
07735 -0 53400 1 07772
                                                                                             F2220550
                             LDA PG60+2+2
07736
     0 46000 2 07767
                                                                                             F2220560
                           CPY CORESZ 1
      0 70000 1 06566 PG20
                                                                                             F2220570
                             TIX PG20+1+1
      2 00001 1 07737
07740
                             WRS 219
                                                                                             F2220580
      0 76600 0 00333
07741
                                                                                             F2220590
                             RDS 193
07742 0 76200 0 00301
                             LXD PG95,1
                                                                                             F2220600
07743 -0 53400 1 07772
                                                                                             F2220610
                             LDA PG60+2:2
     0 46000 2 07767
07744
                                                                                             F2220620
                           CPY CORES,1
     0 70000 1 05566 PG30
07745
                                                                                             F2220630
                            TIX PG30+1+1
07746 2 00001 1 07745
                                                                                             F2220640
                            LXD PG95 1
07747 -0 53400 1 07772
                                                         PG40-1
                             PXD 0.0
                                                                                             F2220650
07750 -0 75400 0 00000
07751 0 36100 1 05566 PG40 ACL CORES+1
                                                                                             F2220660
                                                                                             F2220670
                        TIX PG40+1+1
07752 2 00001 1 07751
                                                                                             F2220680
07753 0 60200 0 07773
                             SLW PG99
                           CLA PG99
                                                                                             F2220690
      0 50000 0 07773
07754
                                                                                             F2220700
                            SUB PG50+2+2
     0 40200 2 07765
07755
                            TZE NORMRP
                                                                                             F2220715
07756 0 10000 0 07761
                                                                                            F2220720
                             TIX PG15,4,1
07757 2 00001 4 07734
                                                                   ERROR. GO TO DIAGNOSTIC. F2220735
                             TSX DIAG 4 DRUM READ
07760 0 07400 4 00004
07761 0 76200 0 00221 NORMRP RDS 145 SKIP OVER DIAGNOSTIC RECORD ON SYSTEM TAPE.
                                                                                            F2220736
                             TRA ONETCS GO TO ONE TO CS (MONITOR)=
                                                                                            F2220737
07762 0 02000 0 00004
                             OCT 103075525444 CHECK SUM, STATE B, RELCON
                                                                                            F2220744
                      PG50
07763 +103075525444
                             OCT -246744643200 CHECK SUM STATE A, NORMAL
                                                                                            F2220754
07764 -246744643200
                                                                                            F2220760
                             OCT 1000
                      PG60
07765 +000000001000
                                                                                            F2220770
07766 +000000000000
                             OCT
                            OCT 1000000
                                                                                            F2220780
                      PG70
07767 +000001000000
                                                                                            F2220790
                            OCT 2000000
07770 +000002000000
                      PG80
                           OCT 5000000
                                                                                            F2220805
07771 +000005000000
                      PG90
                                                                                            F2220810
                            OCT 1000000000
07772 +001000000000
                      PG95
                                                                                            F2220820
                           HTR
07773 0 00000 0 00000 PG99
                                            DRUM OVERFLOW ERROR PROCEDURE.
07774 -0 63400 1 77777 BURNCE SXD TOP:1
                                                                                            F2220825
                            TRA DIAG
                                                                                            F2220826
07775 0 02000 0 00004
                        TOP EQU 32767
                                                                                            F2220827
                77777
                00222 TAPE2 EQU 146
                                                                                            F2220830
                                                                                            F2220840
                00223 DOTAPE EQU 147
                                                                                            F2220850
                00224 ATAPE EQU 148
                                                                                            F2220860
                00301 PPDRM EQU 193
                                                                                            F2220870
                00303 ADRUM EQU 195
                00304 TAUDRM EQU 196
                                                                                            F2220880
                                                                                            F2220890
                             EQU 97
                00141 TL
                05565 RELWDS SYN RELDRA+1
                                                                                            F2220900
                                                                                            F2220910
                           SYN BIT18
                04003 ABIT
                                                                                            F2220920
                04005 BBIT
                             SYN BIT20
                                                                                            F2220930
                04003 SUBBIT SYN BIT18
                                                                                            F2220940
                06566 CORESZ SYN CORES+512
                                                                                            F2220945
                00004 ONETCS EQU 4
                                                                                            F2220946
                00004 DIAG EQU 4
                                                                                            F2220950
                00000
                             END
```

00032

00735

03672

00031

00032

03671

03672

06400

06635 C1

06636 S1

06637 C2

06640 S2

06641 C3

06642 S3

06643 D1

06644 D2

```
BLOCK THREE OF SECTION TWO.
                                                                                 F2300004
                    MASTER RECORD CARD = FN036
                                                                                F2300006
                  BLOCK 3 DOES SUBSCRIPT ANALYSIS FOR
                 THOSE SUBSCRIPT COMBINATIONS NO SUBSCRIPT
                                                                                F2300010
                                                                                 F2300020
                 ELEMENT OF WHICH IS UNDER CONTROL OF
                                                                                F2300030
                 A DO (PURE RELATIVE CONSTANTS). TWO
                 TYPES OF TSXCOM TABLE ENTRIES ARE MADE IN ROUTINE FOUND
                  WHICH WILL INDICATE TO SUCCEEDING BLOCKS THE NECESSITY TO
                                                                                F2300050
                 COMPILE EITHER DIRECT LXDS OF INDEX REG VALUES OR TSXS TO
                                                                                F2300060
                 SUBROUTINES TO COMPUTE THOSE INDEX REG VALUES. FOUR TYPES OF F2300070
                 TRASTO TABLE ENTRIES ARE MADE WHICH WILL INDICATE THAT
                 CERTAIN INDEXING INSTRUCTIONS SHOULD BE COMPILED ACCOMPANYINGF2300090
                 THE TRANSFERS OUT OF THE RANGE OF DOS WHICH DEFINE VALUES
                                                                                F2300100
                 OF THE SUBSCRIPTS IN QUESTION. FINALLY. TSXCOM ENTRIES AND
                                                                                F2300120
                 TABLE IRV ENTRIES ARE SORTED AND WRITTEN ON DRUM. ROUTINES
                 ENCOUNTERED IN BLOCK 2 WILL BE RECOGNIZED IN THIS BLOCK 3 -
                                                                                F2300130
                                                                                F2300140
                 SUBCOM, TRAWORD, SPC, TINFOR, LIST.
                                                                                F2300150
             ORG 25
                                                                                F2300160
             BSS 1
                                TABLE STORAGE
00031 NAME
                                                                                F2300170
             BSS 449
                                                                                F2300180
             BSS 1
00733 NAMZ
                                                                                F2300190
00734 FORTAG BSS 1
                                                                                F2300200
             BSS 1499
                                                                                F2300210
             BSS 1
03670 FORTZ
                                                                                F2300220
03671 FORVAL BSS 1
                                                                                F2300230
             BSS 1499
                                                                                F2300240
             BSS 1
06625 4VALZ
                                                                                F2300250
             ORG 25
                                                                                F2300260
             BSS 1
00031 TCOM
             BSS 749
                                                                                F2300280
01407 TCOMZ
             BSS 1
                                                                                F2300290
             ORG 1977
                                                                                F2300300
03671 DOTAG
             BSS 1
                                                                                F2300310
             BSS 1349
                                                                                F2300320
06377 DOTAGZ BSS 1
                                                                                F2300330
             BSS 149
                                                                                F2300340
06625 IRVZ
             BSS 1
                                ADDRESS HAS FORTAG IX CURRENT
                                                                                F2300350
             BSS 1
06626 TAG
                                                                                F2300360
             BSS 1
06627 TS
                                ONE IF SOLITARY SUB COEFF ONE, OTHERWISE ZERO
                                                                                F2300370
             BSS 1
06630 TAGIND
                                COUNT OF NO OF SYMBOLS IN SUB COMB
                                                                                F2300380
06631 DELTA
             BSS 1
                                                                                F2300390
                                WORKING SYMBOL ONE
             BSS 1
06632 RSYM1
                                                                                F2300400
             BSS 1
                                WORKING SYMBOL TWO
06633 RSYM2
                                                                                F2300410
                                WORKING SYMBOL THREE
06634 RSYM3
             BSS 1
                                                                                F2300420
                                COEFF FIRST SYMBOL
             BSS 1
                                FIRST SYMBOL
                                                                                F2300430
             BSS 1
                                                                                F2300440
                                COEFF 2ND SYMBOL
             BSS 1
                                                                                F2300450
                                2ND SYMBOL
             BSS 1
                                                                                F2300460
             BSS 1
                                COEFF 3RD SYMBOL
                                                                                F2300470
             BSS 1
                                3RD SYMBOL
                                                                                F2300480
                                DIM 1ST SYM, IF TWO-DIMENSIONAL
             BSS 1
                                                                                F2300490
                                DIM 2ND SYM, IF THREE-DIMENSIONAL
             BSS 1
                                LEVEL DOTAG MATCHING SUBXCRIPT SYMBOL
                                                                                F2300500
06645 TL2
             BSS 1
```

```
IX DOTAG MATCHING FIRST SUB SYMBOL (RSYM1)
                                                                 BSS 1
                                      06646 XR1
                                                                                                     LEV DOTAG MATCHING 1ST SUB SYMB (RSYM1)
                                                                                                                                                                                                        F2300520
                                      06647 LR1
                                                                 BSS 1
                                                                                                     IX LAST DOTAG OF NEST SEARCHED IN TRAWRD 1ST LVF2300530
                                      06650 NEXTR1 BSS 1
                                   06651 XR2 BSS 1

06652 LR2 BSS 1

06653 NEXTR2 BSS 1

06654 XR3 BSS 1

06655 NEXTR3 BSS 1

06656 SKIP BSS 1

06656 TRABIT BSS 1

06657 TRABIT BSS 1

06656 NEXTRA BSS 1

06660 NEXTRA BSS 1

06661 LASTB BSS 1

06662 A

06663 B

06664 IRVXX BSS 1

06664 IRVXX BSS 1

06000 L(0)

1X DOTAG MATCHING 2ND SUB SYMB (RSYM2)

IX LAST DO OF NEST SRCHD IN TRWRD ON 2NI

IX LAST DO OF NEST SRCHD IN TRWRD ON 3RD L

SKIP* ZERO OR 1

TRAWORD TEMP STORAGE

INTERMEDIATE UPPER LIMIT OF RANGE

UPPER LIMIT OF RANGE

UPPER LIMIT OF RANGE

CURRENT TABLE IRV I*R* VALUE
                                                                                                      IX DOTAG MATCHING 2ND SUB SYMB (RSYM2)
                                                                                                                                                                                                           F2300550
                                                                                                     IX LAST DO OF NEST SRCHD IN TRAWORD ON 2ND LEV F2300560
                                                                                                     IX DOTAG MATCHING THIRD SUB SYMB (RSYM3) F2300570
                                                                                                      IX LAST DO OF NEST SRCHD IN TRWRD ON 3RD LEVEL F2300580
                                                                                                                                                                                                         F2300590
                                                                                                                                                                                                         F2300600
                                                                                                                                                                                                    F2300610
                                                                                                                                                                                                   F2300620
                                                                                                                                                                                                     F2300630
                                                                                                                                                                                                     F2300640
                                                                                                                                                                                                     F2300650
                                                               0,0,0
                                                                                                                                                                                                         F2300660
                0 00000 0 00000 L(0)
  06665
                                                                                                                                                                                                          F2300670
                                                                     0.0.1
                0 00001 0 00000 L(1)
                                                                                                                                                                                                          F2300680
  06667 0 00002 0 00000 L(2)
                                                                    0,0,2
                                                               0+0+3
0+0+6
0+0+36
                                                                                                                                                                                                          F2300690
  06670 0 00003 0 00000 L(3)
                                                                                                                                                                                                          F2300700
  06671 0 00006 0 00000 L(6)
                                                                                                                                                                                                          F2300710
  06672 0 00044 0 00000 L(36)
                                                                                                                                                                                                          F2300720
                                                                    0,0,1350
  06673 0 02506 0 00000 L(1350
                                                                                                                                                                                                          F2300730
  06674 0 02734 0 00000 L(1500
                                                                         0.0.1500
                                                                                                                                                                                                          F2300740
                                                  L(1)A OCT 1
  06675 +0000000000001
                                                                                                                                                                                                          F2300750
  06676 -0 00000 0 00000 L(MZ) MZE
  06677 +200000000000 BITONE OCT 200000000000
                                                                                                                                                                                                          F2300760
                                            BIT18 OCT 400000
                                                                                                                                                                                                          F2300770
  06700 +000000400000
  F2300780
                                                                                                                                                                                                          F2300790
                                                                                                                                                                                                          F2300800
  06704 +077777000000 DECMSK OCT 77777000000 PREMSK OCT -200000000000
                                                                                                                                                                                                          F2300810
                                                                                                                                                                                                         F2300820
                                                                                                       DRUM ORIGIN OF FORVAL TABLE
                                                                                                                                                                                                         F2300830
  06706 0 00000 0 00312 DRMADD
                                                                         202
                                                                                                    DRUM ORIGIN OF NAME TABLE

CORE ORIGIN OF NAME TABLE

MAXIMUM WORDS IN NAME TABLE

DRUM ORIGIN OF WD COUNT TABLE IRV

CORE ORIGIN OF IRV TABLE

MAXIMUM WORDS IN IRV TABLE

F230080

F230080

F2300900

F2300900
06706 0 00000 0 07160 NAMORG 1008 DRUM ORIGIN OF NAME TABLE F2300840 06710 0 00000 0 00031 NAMAD NAME CORE ORIGIN OF NAME TABLE F2300850 06711 0 00702 0 00000 NAMAX 0,0,450 MAXIMUM WORDS IN NAME TABLE F2300860 06712 0 00000 0 02430 IRVORG 1304 DRUM ORIGIN OF WD COUNT TABLE IRV F2300870 06714 0 00226 0 00000 IRVMAX 0,0,150 MAXIMUM WORDS IN IRV TABLE F2300880 06716 0 00000 0 01300 TCOMOR 704 DRUM ORIGIN OF WD COUNT, TABLE TCOM F2300890 06716 0 00000 0 01302 TSXORG 706 DRUM ORIGIN OF TSXCOM TABLE F2300890 06716 0 00000 0 01302 TSXORG 706 DRUM ORIGIN OF TSXCOM TABLE F2300990 06710 0 00000 0 0031 TCOMAD TCOMAX O,0,750 TCOM CORE ORIGIN OF TCOM TABLE F2300930 06721 0 50000 0 07775 STO LADDS EQUAL TO LAST TABLE ENTRY PLUS ONE. F2300940 06724 0 60100 0 07667 STO LADDS EQUAL TO LAST TABLE ENTRY PLUS ONE. F2300960 06724 0 60100 0 07667 STO LADDS EQUAL TO LAST TABLE ENTRY PLUS ONE. F2300990 06725 0 50000 0 07775 CLA 4093 TRASTO CARRYOVER FROM BLOCK TWO F2300990 06725 0 50000 0 07775 CLA 4093 TRASTO CARRYOVER FROM BLOCK TWO F2300990 06727 -0 53400 1 00733 LXD FORTAG-1.1 IF FORTAG EMPTY: F2300980 06731 -0 53400 2 06671 NAMRD LXD FORTAG-1.1 IF FORTAG EMPTY: F2300980 06731 -0 53400 2 06671 NAMRD LXD FORTAG-1.1 IF FORTAG EMPTY: F2301030 06733 0 40200 0 06707 SUB NAMORG FROM BLOCK TWO. F2301030 06733 0 40200 0 06707
  06707 0 00000 0 01760 NAMORG
                                                                         1008
                                                                 SUB NAMORG
                                                                                                      FROM BLOCK TWO.
  06733 0 40200 0 06707
```

06734	0	73400	1	00000		PAX		IF NO TABLE NAME, GO TO READ IN FORVAL.	F2301050 F2301060
06735	-3	00000	1	06766			NAM95 + 1 + 0		F2301070
		76200 (ADRUM	READ IN TABLE NAME. ADD CORE ORG TABLE NAME TO COMP TERMINUS AND	F2301080
		40000					NAMAD		F2301090
06740	0	62100 (9	06746			NAM60	STORE IN COPY ADDRESS.	F2301100
06741	-0	75400	1	00000			0 • 1		F2301110
		76000				SSM		DATE DETUCCH MAY NO ENTRIES AND ACTUAL MO.	F2301120
		40000				ADD	NAMAX	DIFF BETWEEN MAX NO ENTRIES AND ACTUAL NO.	F2301130
06744	0	60100	0	00030			NAME-1		F2301140
06745		46000 (DRUM ORG	F2301150
06746		70000			NAM60	CPY			F2301160
		00001					NAM60,1,1		F2301170
06750	-0	53400	1	00030			NAME-1.1		F2301180
06751	-0	63400	1	06762			NAM80 • 1		F2301190
06752	-0	53400	1	06711			NAMAX • 1		F2301200
06753	-0	50000	1	00733	NAM70		NAMZ • 1	COMPUTE CHECK SUM	F2301200
06754	0	36100	1	00734			NAMZ+1,1	FOR	F2301210
06755	0	60200	0	06771		-	NAMES1	EACH	F2301220
06756	Ó	50000	0	06771			NAMES1	TABLE ENTRY	F2301240
		40200					NAMZ+2+1	AND COMPARE	F2301250
06760	-0	10000	0	06764			NAM90	SAME.	F2301250
06761	1	77775	1	06762			NAM80 + 1 + - 3	COMPUTE CHECK SUM FOR EACH TABLE ENTRY: AND COMPARE SAME: TABLE NAME ALL IN:	F2301270
06762		00000			NAM80		NAM70 • 1	The state and the	F2301270
06763	0	02000	0	06772			BEGIN	TABLE NAME ALL IN.	F2301290
06764		00001			NAM90	TIX	NAM10,2,1	PERS NAME TARKE ERROR GO TO DIAGNOSTIC.	
06765		07400					DIAG 4 DRUM	TABLE NAME EMPTY. TEMP STORAGE TEST FOR EMPTY FORVAL IF EMPTY. NORM BET MONITOR, GO TO SPACE TAPE 1	F2301310
06766	-	50000	-	_	NAM95		NAMAX	TABLE NAME EMPITA	F2301320
06767	0	60100	0	00030			NAME-1		F2301330
06770		02000					BEGIN	TOUR ATARACE	F2301340
06771	0	00000	0	00000	NAMES1	HTR	=	TEMP STORAGE	F2301350
06772	-0	76000	0	00144	BEGIN	MSE	LIGHT	TEST FOR EMPTY FORVAL	F2301360
06773	0	02000	0	06776		TRA	CPYLP		F2301370
06774	0	76000	0	00144			LIGHT	IF EMPTY ,	F2301370
06775	0	02000	0	07616			NORMRT	NORM RET MONITOR. GO TO SPACE TAPE I	F2301303
0.6776	-0	53400	2	06671	CPYLP	LXD	L(6),2	READ IN FORVAL	F2301392
06777	0	76200	0	00302	RDSDRM	RDS	BDRUM	DUE DOUBLE MADE THE ACC	F2301400
07000	0	50000	0	06701			340NE5	PUT DRUM MARK IN ACC.	F2301410
07001		46000					DRMADD		F2301420
07002	−ō	53400	1	06674		LXD	L(1500.1	DITT THE STREET HORD OF FORMAL	F2301440
07003	0	70000	1	06625	CPYONE	CPY	4VALZ.1	TEST TOD DOWN MARK	F2301450
07004		04000					CPYTWO	IESI FUK UKUM MAKK.	F2301460
07005	0	02000	0	07012			CHKSUM	THE THE THE WORLD OF FORMAL	F2301470
07006	0	70000	1	06626	CPYTWO	CPY	4VALZ+1.1	PULL IN 2ND WORD OF FORVAL	F2301470
07007		70000					4VALZ+2+1	AND CHECK SUM.	F2301400
07010	2	00003	1	07003			CPYONE ,1,3		F2301500
07011	-0	53400	1	06665			L(0),1	COMPUTE AND	£2301510
07012	-0	63400	1	03670	CHKSUM	SXD	FORVAL-1:1	COMPUTE AND	F2301520
07013	-0	63400	1	07024		SXD	NEXT+1	COMPARE	F2301520
07014	-0	53400	1	06674			L(1500+1	CHECK	F2301540
07015	-0	50000	1	06625	CSLOOP	CAL	4VALZ+1	SUMS•	F2301550
07016	0	36100	1	06626		ACL	4VALZ+1,1		F2301560
07017	0	60200	0	07030		-	COMCS		F 2301500
07020	0	50000	0	07030			COMCS		F2301510
07021	0	40200	1	06627		suB	4VALZ+2+1	IF EMPTY: NORM RET MONITOR. GO TO SPACE TAPE 1 READ IN FORVAL PUT DRUM MARK IN ACC. PULL IN FIRST WORD OF FORVAL. TEST FOR DRUM MARK. PULL IN 2ND WORD OF FORVAL. AND CHECK SUM. COMPUTE AND COMPARE CHECK SUMS.	1 2301300

	07022 -0						ERROR					F2301590
				07024			NEXT +1 +-3					F2301600
D .			_	07015	NEXT		CSLOOP • 1					F2301610
				07031			2WDDO	FORVAL ALL IN.				F2301620
				06777		TIX	RDSDRM,2,1	DELLO GODILLI TADI E	50000	co 1	O DIACHOCTIC	F2301630
				00004			DIAG 4 DRUM	REAAD FORVAL TABLE.	ERROR.	GU I	O DIAGNOSTIC.	F2301643
A				00000		HTR		FD000 601WFF0				F2301650
	07031 -0	53400) 4	06671	2WDD0	_	L(6),4	ERROR COUNTER.	***			F2301662
				00223	2WD05		TAPE3	PREPARE TO READ IN DO	IAG			F2301670
	07033 -0						L(300) •1	**** *** **** *****				F2301680
	07034 -0					MSE		TEST FOR EMPTY DOTAG.				F2301690
				07040			2WD10					F2301700
				00143		PSE						F2301710
	07037				_		2WD70					F2301720
	07040 -0				2WD10	RTT						F2301730
	07041	76100	0	00000		NOP		D				F2301740
				00223			TAPE3	PULL				F2301750
	07043 -0				2WD30		L(7) •2	IN				F2301760
				07570			DOZ+1	DOTAG				F2301770
				07050			2WD40	BUT				F2301780
				07062			2WD70	ONLY				F2301790
				07042			2WD20	THE .				F2301800
					2WD40	_	DOZ+1,1	FIRST				F2301810
				07054			2WD50	TWO	50000	CO T	O DIACHOSTIC	F2301820
				00004			DIAG 4 WORDS				O DIAGNOSTIC.	
	07053	07400) 4	00004			DIAG,4 OF	5450	EKKUK.	60 1	O DIAGNOSTIC.	
					2WD50	CPY	ESXX	EACH				F2301850
				07060			2WD60	TABLE	EBBOD	GO T	O DIAGNOSTIC.	F2301860
				00004			DIAG 4 ENTRY	•			O DIAGNOSTIC.	
	07057	07400) 4	00004			DIAG 4		ERRORS	do i	O DIAGNOSTICE	F2301890
				07054	2WD60		2WD50+2+1					F2301900
				07043	011030		2WD30+1+-2					F2301910
	07062 -0				2WD70	-	DOZ • 1					F2301920
				00333		RTT	219					F2301930
	07064 -0						24000	READ ERROR.				F2301940
				07067				NORM RET MONITOR. GO	TO SPAC	F TA	DF 1	F2301955
	07066 0	02000	0	07616	aubaa		NORMRT	NORM RET MONTTONS GO	IO SPAC	- IA		F2301960
	07067 2				ZWU80	TCY	2WD05+4+1	3 READING DOTAG,	FRROR.	GO T	DIAGNOSTICA	
				00004	1 12001	ISA	0,0,300	S KENDING DOINGS	- MONO	30 11		F2301980
					L(300)		0,0,7					F2301990
				00000		LITD	0,001	TEMP STORAGE.				F2302000
A	07073 0	00000	, 0	00000	ESAA	HTR	MASTER REC	ORD CARD = FN037				F2302005
				07616	-	ODG	3980	ORD CARD - 1 HOS.				F2302010
				07614	DUDNEE			DRUM OVERFLOW				F2302011
	07614 -0				BURNCE	3AU	DIAG	ERROR PROCEDURE				F2302012
	07615 0	02000	, 0	00004		IKA	THE 2 WD CHES	T NORMRT SPACES TAPE 1	PAST TH	E DI	AGNOSTIC RECA	
		2.000		0022	MARKET	DDC		SKIP OVER DIAGNOSTIC R	FCORD C	N SY	STEM TAPE.	F2302017
					NORMRT	TDA	ONETCS	GO TO ONE TO CS (MONIT				F2302018
				00004	1 157		LIST40+4					F2302030
	07620 -0	63400	4	0/023	C131	PDX		PUT INDEX QUANTITY IN	XRA			F2302040
	07621 -0					PAX		PUT NR. OF WDS IN YRR.	XRC.			F2302050
				00000			LIST50	COMPUTE NRA OF WRDS				F2302060
				07654			LIST30	SAVE LINKAGE PUT INDEX QUANTITY IN PUT NR. OF WDS IN XRB. COMPUTE NR. OF WRDS PLUS ORIGIN E1 AND				F2302070
	07624 0	02100	, 0	07641		JIK	F13130	THE CHAPTER AS THE				

```
F2302080
                               STA LIST20
                                                 INITIALIZE ADDRESSES.
       0 62100 0 07634
07625
                               CLA LADDIN+5,1
                                                 TEST
                                                                                                  F2302090
       0 50000 1 07701
                                                                                                  F2302100
                                                 FOR
                               ARS 18
07627 0 77100 0 00022
                               SUB LADDS+5.1
                                                 FULL
                                                                                                  F2302110
07630 0 40200 1 07674
                                                 TABLE.
                                                                                                  F2302120
                               TNZ LIST10
07631 -0 10000 0 07633
                                                     DRUM OVERFLOW, GO SAVE IRA BEFORE DIAG.
                                                                                                 F2302135
                               TSX BURNCE,4
07632 0 07400 4 07614
                                                                                                  F2302140
07633 -0 75400 0 00000 LIST10 PXD 0.0
                                                 ZERO IN ACC.
                                                                                                  F2302150
07634 0 36100 2 00000 LIST20 ACL 0,2
                                                 COMPUTE
                                                 ENTRY
                                                                                                  F2302160
                               TIX LIST20,2,1
      2 00001 2 07634
                                                     SELECT DRUM.
                                                                                                  F2302165
                               WRS ADRUM
      0 76600 0 00303
                                                 CHECK SUM.
                                                                                                  F2302170
                               SLW LIST60
       0 60200 0 07655
07637
                                                                                                  F2302180
                               LDA LADDS+5,1
                                                 COPY
07640
       0 46000 1 07674
                                                                                                  F2302190
       0 70000 4 00000 LIST30 CPY 0:4
                                                 ENTRY
07641
                                                 AND
                                                                                                  F2302200
                               TIX LIST30,4,1
07642
      2 00001 4 07641
                                                                                                  F2302210
                                                 CHECK SUM.
                               CPY LIST60
       0 70000 0 07655
07643
                               CLA LADDS+5+1
                                                 COMPUTE
                                                                                                  F2302220
       0 50000 1 07674
07644
                                                                                                  F2302230
                               ADD TSXCOM+5+1
                                                 NEXT
      0 40000 1 07667
                               ADD L(1)A
                                                 ENTRY
                                                                                                  F2302240
07646 0 40000 0 06675
                                                 ADDRESS.
                                                                                                  F2302250
                               ANA ADDMSK
07647 -0 32000 0 06703
                               STO LADDS+5,1
                                                                                                  F2302260
07650 0 60100 1 07674
                                                 EXIT
                               LXD LIST40+4
                                                                                                  F2302270
07651 -0 53400 4 07653
                                                                                                 F2302280
                               TRA 1:4
07652 0 02000 4 00001
       0 00000 0 00000 LIST40 HTR
                                                 E.S.
                                                                                                 F2302290
07653
                                                 L(E1)
                                                                                                 F2302300
       0 00000 0 07656 LIST50 HTR E1
07654
       0 00000 0 00000 LIST60 HTR
                                                                                                 F2302310
                                                 E.S.
                                   FOUR WORD ENTRY BLOCK
                                                                                                 F2302320
                                                                                                 F2302330
                               HTR
       0 00000 0 00000 E1
07656
                                                                                                 F2302340
                               HTR
       0 00000 0 00000 E2
07657
                                                                                                 F2302350
       0 00000 0 00000 E3
                               HTR
07660
                               HTR
       0 00000 0 00000 E4
07661
                                   FIVE KEY WORDS, C(DEC)=INDEX QUANTITIES, C(ADD)=NR. OF WORDS.F2302370
       0 00005 0 00002 TSXCOM HTR 2+0+5
                                                                                                 F2302380
                                                                                                 F2302390
       0 00004 0 00003 TRASTO HTR 3,0,4
07663
                                                                                                 F2302400
       0 00003 0 00002 NAMKEY HTR 2:0:3
07664
                                                                                                 F2302410
       0 00002 0 00002 CHATAG HTR 2:0:2
       0 00001 0 00004 DRMTAG HTR 4.0.1
                                                                                                 F2302420
07666
                                   FIVE WORDS CONTAINING CURRENT TABLE ADDRESSES IN ADD. PART. F2302430
       0 00000 0 00000 LADDS HTR
                                                 TSXCOM
                                                                                                 F2302440
07667
                                                                                                 F2302450
                                                 TRASTO
                              HTR
07670
       0 00000 0 00000
                               HTR
                                                 NAMKEY
                                                                                                 F2302460
07671
       0 00000 0 00000
                                                 CHATAG
                                                                                                 F2302470
                               HTR
       0 00000 0 00000
07672
                                                 DRMTAG
                                                                                                 F2302480
                              HTR
       0 00000 0 00000
07673
                                   FIVE WORDS, C(ADD)=ORIGIN, C(DEC)=LAST TABLE LOC. PLUS ONE
                                                                                                 F2302490
       0 02660 0 01302 LADDIN HTR 706,0,1456
                                                                                                 F2302500
                                                 TSXCOM
07674
                                                 TRASTO
                                                                                                 F2302510
                              HTR 304,0,704
       0 01300 0 00460
07675
                                                 NAMKEY
                                                                                                 F2302520
       0 02662 0 01760
                              HTR 1008,0,1458
07676
                                                 CHATAG
                                                                                                 F2302530
                              HTR 2.0.302
       0 00456 0 00002
                              HTR 1460,0,1960
                                                 DRMTAG
                                                                                                 F2302540
07700 0 03650 0 02664
                                  THIS ROUTINE, GIVEN A TAU TAG, OBTAINS THE CORRESPONDING SUBSCRIPT COMBINATION FROM THE TAU
                                                                                                 F2302550
                                                                                                 F2302560
                                  DRUM AND POSITIONS IT IN PROPER FORMAT IN STORAGE.
                                                                                                F2302570
07701 -0 63400 4 07762 SUBCOM SXD SUB085,4
                                                 SAVE LINKAGE INDX.
                                                                                                 F2302580
                        LXD SUBORG 1
                                                 INITIALIZE ERROR COUTNER.
                                                                                                 F2302590
07702 -0 53400 1 07770
                                            SELECT TAU DRUM.
07703 0 76200 0 00304 SUB010 RDS TAUDRM
                                                                                                 F2302600
```

07704 -0 53400 4 07772	LXD	\$UBORG+2,4	INITIALIZE	F2302610
07705 -0 75400 0 00000	PXD	0•0	SUBSCRIPT COMBINATION	F2302620
07706 0 60100 4 06645	SUB020 STO	C1+8•4	SPACE	F2302630
07707 2 00001 4 07706	TIX	SUB020,4,1	TO ZERO.	F2302640
07710 0 50000 0 06626	CLA	TAG	COMPUTE	F2302650
07711 0 76500 0 00011	LRS	9	DRUM	F2302660
07712 0 73400 6 00000	PAX	0,6	ADDRESS.	F2302670
07713 -0 75400 0 00000	PXD	0.0	TAU ONE ADD. IS ORG+3TAU.	F2302680
07714 0 76300 0 00011	LLS	9	TAU TWO ADD. IS ORG+5TAU.	F2302690
A7715 0 40100 0 07773	STO	SUBES1	TAU THREE ADD. IS ORG+7TAU.	F2302700
07715 0 00100 0 07715	AI S	1	STORE	F2302710
07710 0 /0100 0 00001	STO	SURES2	ADDRESS	F2302720
07717 0 60100 0 07774	CLA	SUBORG+3.4	IN SUBEST	F2302730
07720 0 50000 4 07773	VDD CCV	SUBFSI	FOR LDA	F2302740
07721 0 40000 0 07773	CHBOSO ADD	SUBEST	INSTRUCTION	F2302750
07722 0 40000 0 07774	300030 ADD	500032	Inother Ione	F2302760
07723 2 00001 4 07722	CTA	CHRECT		F2302770
07724 0 62100 0 07773	SIA	CUBECT	CODY CUR. COMR.	F2302780
07725 0 46000 0 07773	LUA	SUDESI	TAN ONE. THO. THOSE	F2302700
07726 0 70000 0 06635	CPY	CI	IAU ONE, IWO, INKEE	F2302130
07727 -3 00002 2 07731	IXL	5080409292		F2302000
07730 0 70000 0 06641	CPY	C3	TAU 3	F2302010
07731 0 70000 0 06636	SUB040 CPY	\$1	TAU 1,2,3	F2302820
07732 -3 00001 2 07737	TXL	SUB060,2,1		F 2302830
07733 0 70000 0 06640	CPY	\$ 2	TAU2•3	F2302840
07734 -3 00002 2 07736	TXL	SUB050 • 2 • 2		F2302850
07735 0 70000 0 06642	CPY	\$3	TAU 3	F2302860
07736 0 70000 0 06643	SUB050 CPY	D1	TAU 2,3	F2302870
07737 0 70000 0 07773	SUBO60 CPY	SUBES1	TAU 1,2,3	F2302880
07740 -0 53400 4 07770	LXD	SUBORG • 4	COMPUT CHECK SUM	F2302890
07741 -0 50000 0 06635	CAL	C1	AND COMPARE WITH	F2302900
07742 0 36100 4 06644	SUBO70 ACL	C1+7.4	ENTRY CHECK CUM.	F2302910
A7742 2 00001 4 07742	TIX	SUB070+4+1	THREE ATTMPTS ARE MADE	F2302920
07744 0 60200 0 07774	SLW	SUBES2	TO READ SC CORRECTLY.	F2302930
07744 0 60200 0 07774	CLA	SUBFS2	IF ERROR STILL PRESENT.	F2302940
07/45 0 50000 0 0/1/4	SLIR	SUBES1	COMPLETE ROUTINE. MAKE ERROR RET.	F2302950
07746 0 40200 0 077752	77F	SUB075	CHECK SUMS AGREE TRA	F2302960
07747 0 10000 0 07752	717	SUB010-1-1	CHECK SUMS DISAGREE.	F2302972
07750 2 00001 1 07703	71A	DIAGAA IN R	INITIALIZE SUBSCRIPT COMBINATION SPACE TO ZERO. COMPUTE DRUM ADDRESS. TAU ONE ADD. IS ORG+3TAU. TAU TWO ADD. IS ORG+5TAU. TAU THREE ADD. IS ORG+7TAU. STORE ADDRESS IN SUBESI FOR LDA INSTRUCTION. COPY SUB. COMB. TAU ONE, TWO, THREE TAU 3 TAU 1,2,3 TAU 2,3 TAU 2,3 TAU 2,3 TAU 1,2,3 COMPUT CHECK SUM AND COMPARE WITH ENTRY CHECK CUM. THREE ATTMPTS ARE MADE TO READ SC CORRECTLY. IF ERROR STILL PRESENT. COMPLETE ROUTINE, MAKE ERROR RET. CHECK SUMS AGREE, TRA. CHECK SUMS AGREE, TRA. CHECK SUMS DISAGREE. EADING TAU FROM DRUM, ERROR. GO TO DIAGNOSTIC. REARRANGE C1, C2, D1, D2, TO COMPLY WITH CORE	F2302985
07751 0 07400 4 00004	C110075 1 VD	CHRODETTAK	DEADPANGE C1. C2. D1. D2.	F2302990
07752 -0 53400 4 0/1/1	SUBORS CLA	C1+7-4	TO COMPLY WITH CORE	F2303000
07753 0 50000 4 06644	SUBURU CLA	0.2	STOPAGE FORMAT.	F2303010
07754 0 73400 2 00000	PAA	DECHEK	STORAGE TORPATO	F2303020
07755 -0 32000 0 06704	ANA	DECMON .	•	F2303020
07756 0 60100 4 06644	\$10	C1+194		F2303030
07757 -0 75400 2 00000	PXD	0+2		F2202040
07760 -2 00006 4 07763	TNX	\$UB090+4+6		F2202020
07761 0 60100 0 06637	STO	C2		F2303060
07762 -3 00000 0 07753	SUBO85 TXL	SUB080 •0		r 2303070
07763 0 60100 0 06644	SUB090 STO	D2		F 2303080
07764 -0 53400 4 07762	LXD	SUB085 • 4	RESTORE LINKAGE INDEX.	F2303090
07765 0 76100 0 00000	NOP		·	F2303102
07766 0 02000 4 00001	TRA	1,4		F2303110
07767 0 76100 0 00000	SUB100 NOP			F2303122
07770 +000006001356	SUBORG OCT	000006001356		F2303130
07771 +000007000454	OCT	7000454	EADING TAU FROM DRUM, ERROR. GO TO DIAGNOSTIC. REARRANGE C1, C2, D1, D2, TO COMPLY WITH CORE STORAGE FORMAT. RESTORE LINKAGE INDEX, DEC. IS 7, ADD. IS ORG. TAU 2	F2303140
01111 1000001000			•	

H

	07772	+00	00010000	000		OCT	10000000	DEC. IS 8, ADD. IS ORG. TAU 1 E.S. ES. ORD CARD = FN039 IF FORTAG	F2303150
	07773	0	00000 0	00000	SUBES1	HTR		E.S.	F2303160
	07774	0	00000 0	00000	SUBES2	HTR		E•5•	F2303170
				06721		ORG	3537		F2303180
				•			MASTER REC	ORD CARD = FN039	F2303185
	06721	-0	53400 1	00733	BL3A	LXD	FORTAG-1:1	IF FORTAG	F2303190
	06722	3	02733 1	07616		TYH	NORMRT - 1 - 1499	IS FMPTY. NORM RET MONITOR. GO SPACE TP 1.	F2303205
		_	7/000	00111		MSE	LIGHT	IF FORVAL IS EMPTY,	F2303210
	06724	ŏ	02000 0	06726		TRA	INIT	IF FORVAL IS EMPTY. NORM RET MONITOR. GO TO SPACE TAPE 1	F2303220
	06725	õ	02000 0	07616		TRA	NORMRT	NORM RET MONITOR. GO TO SPACE TAPE 1	F2303235
	06726	-0	53400 1	03670	INIT	LXD	FORVAL-1:1	NORM RET MONITOR. GO TO SPACE TAPE 1 INITIALIZE THIS PROGRAM MAKES A PASS OVER FORTAG: AND FOR EACH NON-NEGATIVE (NOT TRREATED IN BL 2)	F2303240
	06727	-0	63400 1	07034	•	SXD	TAB60.1		F2303250
	06720	-0	53400 1	00733		LXD	FORTAG-1-1		F2303260
	00730	-0	63400 1	07015		SXD	VAL 80 • 1	A	F2303270
	00131	-0	63400 1	07012		SXD	VAL 95.1	•	F2303280
	00132	-0	52400 1	07020		LXD	007.1	•	F2303290
	00133	-0	62400 1	077101		SYD	IND20+1	•	F2303300
	06734	-0	52400 1	0/101	VALTAG	LXD	1 (1500.1	THIS PROGRAM	F2303310
٠.	06/35	-0	53400 1	00074	VALIAG	CLA	E001741	MAKES A	F2303320
	06130	v	30000 1	07017	VALIO.	TMI	VALON	PASS OVER	F2303330
	06/3/	-0	12000 0	01011		V.V.V	RITONE	FORTAGA AND	F2303340
	06740	-0	32000 0	07017		TNZ	VAL90	FOR EACH NON-NEGATIVE (NOT TRREATED IN BL 2)	F2303350
						CLA	ENDITA1	TAG WITH BITONE FOUND	F2303360
	06/42	0	50000 1	05010		ANA	FORTZ+1 ADDMSK	TO ZERO. (NOT YET TREATED HERE)	F2303370
	06743	-0	32000 0	00103		STO	TAG	ORTAINS THE CORRESPONDING SUBSCRIPT	F2303380
	06744	0	60100 0	00020		210	CAVEAAI	COMBINATION FROM THE	F2303390
	06745	-0	63400 1	07000		TEV	SMACKAT	OBTAINS THE CORRESPONDING SUBSCRIPT COMBINATION FROM THE TAU TABLE DRUM.	F2303400
	06746	. 0	07400 4	0//01			L(3) 94	THO TABLE DROME	F2303410
	06747	-0	53400 4	06670		PXD	0-0		F2303420
	06750	-0	75400 0	00000			DCVM1+2.4	INITIALIZE WITH ZEDOFC.	F2303430
						310	RSYM1+3,4	TRITIALIZE WITH ZEROES.	F2303440
	06752	2	00001 4	06/51			VAL20+4+1	THIS POUTINE CTOPES	F2303450
	06753	-0	53400 1	06671			L(6) +1 L(3) +2	THE COMPARE AS FOLLOWS	F2303460
	06754	-0	53400 2	06670			C1+6 - 1	LEETMOST IN DOVMI.	F2303470
	06755	0	50000 1	06644	VALSO	TZC	S1+6+1 VAL40	MENT CAMBOL IN DEAMS	F2303480
							RSYM1+3+2	DIGHTMOST IN DOVMA.	F2303490
	06757	0	60100 2	06635			KOTMITOTZ	TE THERE ARE NOT THREE	F2303500
	06760	1	77777 2	06761			VAL40,2,-1	CYMPOLE IN THE CC. THEN	F2202510
	06761	2	00002 1	06755	VAL40	117	VAL30+1+2	THE DEVELOCATIONS ADD	F2302520
	06762	-0	75400 2	00000			0,2	CET TO ZEDO.	F2303520
	06763	-0	76000 0	00003		SSM		DELTA TO THE CYMBOL COUNT.	F2303550
	06764	0	40000 0	06670			L(3)	CHECOTOT TO CONCTANT, NO CYMPOLS.	F2303550
	06765	0	10000 0	07001			VAL60	SUBSCRIPT IS CONSTANTS NO STRIBULS.	F2303330
	06766	0	60100 0	06631			DELTA	LOCATION TACIND IS SET	F2303500
			53400 4				L(0),4	TO TEDO HALLESS THE SC	F2303570
	06770	0	40200 0	06666			L(1)	LIAC THE COLLOWING	E2202500
	06771	-0	10000 0	06777			VAL50	HAS THE FOLLOWING	F2303330
	06772	0	50000 0	06636		CLA	51	CHARACTERISTICS	E2202000
	06773	0	10000 0	06777		TZE	VAL50 C1•1	UNE STMBUL	E3303630
	06774	-0	53400 1	06635			C1+1	IN LET MOST POSTITION	F2202420
	06775	3	00001 1	06777			VAL50:1:1	WITH COEFFICIENT EQUAL	F2303030
	06776	-0	53400 4	06666		LXD	L(1) #4	TO ONE	F2303640
	06777	-0	63400 4	06630	VAL50	SXD	TAGIND 4	FORTAG, AND FOR EACH NON-NEGATIVE (NOT TRREATED IN BL 2) TAG WITH BITONE EQUAL TO ZERO, (NOT YET TREATED HERE) OBTAINS THE CORRESPONDING SUBSCRIPT COMBINATION FROM THE TAU TABLE DRUM. INITIALIZE WITH ZEROES. THIS ROUTINE STORES THE SYMBOLS AS FOLLOWS LEFTMOST IN RSYM1, NEXT SYMBOL IN RSYM2, RIGHTMOST IN RSYM3. IF THERE ARE NOT THREE SYMBOLS IN THE SC, THEN THE RSYM LOCATIONS ARE SET TO ZERO. DELTA IS THE SYMBOL COUNT. SUBSCRIPT IS CONSTANT, NO SYMBOLS. LOCATION TAGIND IS SET TO ZERO, UNLESS THE SC HAS THE FOLLOWING CHARACTERISTICS ONE SYMBOL IN LEFTMOST POSITION WITH COEFFICIENT EQUAL TO ONE GO TO PROCESSING ROUTINE. (DEC HAS FORTAG IX)	F2303650
	07000	-3	00000 0	07022	SAVEA	TXL	TABSER .0	GO TO PROCESSING ROUTINE. (DEC HAS FORTAG IX)	F2303660
	07001	-0	53400 1	07000	VAL60	LXD	SAVEA . 1	RETURN FROM PROCESSING	F2303670

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F2303680
                                                                                     F2303690
                                                                                    F2303700
                                                                                    F2303710
                                                                                      F2303720
                                                                                      F2303730
                                                                                      F2303740
                                                                                      F2303750
                                                                                      F2303760
    F2303770
     07014 1 77777 1 07015 VAL70 TXI VAL80,1,-1
                                                                                     F2303780
D
     07057 0 60100 0 07657 FND30 STO E2
     07060 0 50000 0 07662 CLA TSXCOM TSXCOM KEY
07061 0 07400 4 07620 TSX LIST:4
                                                                                   F2304130
                                                                                   F2304140
                                                                                   F2304150
     07062 -0 53400 1 07053 FND40 LXD FND10+1
07063 0 02000 0 07033 TRA TAB50 CONTINUE SEARCH
                                                                                   F2304160
                             SUBRT INDO.... THIS ROUTINE DETERMINES WHETHER THE FORVAL F2304180 WHICH HAS BEEN FOUND TO MATCH A SUBSCRIPT FALLS WITHIN RANGE F2304190
                               OF A DO WHICH IN TURN MATCHES THE FORAVAL. IF SO A RETURN IS F2304200
                                MADE AND TSXCOM ENTRY FOR THIS FORVAL ALPHA IS OMMITTED. F2304210
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	07064	-ò	53400	1	07113	INDO	LXD	IND60+1		OBTAIN FIRST WORD DOTAG. DOTAGS BETA. DOTAGS ALPHA AGAINST FORVAL ALPHA. OUTSIDE RANGE . RETURN. ALPHA EQ DO ALPHA. ERROR. GO TO DIAGNOSTIC.	F2304220
-	07065	0	50000	1	07101	TND10	CLA	DO7 • 1		OBTAIN FIRST WORD DOTAGA	F2304240
	07060	٥	73400	2	00000	111010	PAX	0.2		DOTAGS BETA	F2304250
	07070	-0	22000	2	06704		ΔΝΔ	DECMSK		DOTAGS ALPHA	F2304260
	07070	-0	34000	ň	07112		CAS	FORNR		AGAINST FORVAL ALPHA	F2304270
	07071	ŏ	02000	V	00002		TPA	2.4		OUTSIDE PANGE . RETURN.	F2304280
	07072	×	07400	7.	00002		TSX	DIAGA4 F	ORVAL	ALPHA EQ DO ALPHA. ERROR. GO TO DIAGNOSTIC.	F2304295
	07075	-0	75400	2	00004		DAU	0,2		THE THE DO NATIONAL PRINCIPLE OF THE PRI	F2304300
			34000				CAS	FORNR		DOTAGS RETA AGAINST FORVAL ALPHA	F2304310
	07076						TPA	IND30		FORVAL WITHIN RANGE	F2304320
			02000					IND30		OF DOTAG.	F2304330
			77776					IND20,1,-	2	,	F2304340
•	07100	7	00000	1	07044	TND20		IND10.1	_		F2304350
D	07101	9	02000	7	00000	111020	TRA	2,4		DOTAG FYHAUSTED. RETURN.	F2304360
	07102	-0	62400	7	04670	TND20				POTRO ENTREDICE Y NATIONING	F2304370
	07103	-0	50000	1	07571	111030	CLA	DOZ+1+1		FN FDIT CORR CD NR.	F2304384
	07104	ŏ	34000	2	06635	TNDAO	CAS	RSYM1+3,2		DOES DOTAG SYMBOL FOUAL	F2304390
			02000				TRA	IND50		FORVAL SYMBOL (WHICH HAS BEEN FOUND	F2304400
	07107							1,4		TO EQUAL SUBSCRIPT). IF SO. RETURN.	F2304410
. •	07110	2	000001	2	07105	1ND50		IND40,2,1			F2304420
	07111	ī	77776	ī	07101	1.1.000	TXI	IND20.1	2	DOTAGS BETA AGAINST FORVAL ALPHA. FORVAL WITHIN RANGE OF DOTAG. DOTAG EXHAUSTED, RETURN. FN EDIT CORR CD NR. DOES DOTAG SYMBOL EQUAL FORVAL SYMBOL (WHICH HAS BEEN FOUND TO EQUAL SUBSCRIPT). IF SO, RETURN. STORAGE FOR FIRST WD FORVAL (ALPHA)	F2304430
A	07112	ō	00000	õ	00000	FORNR	HTR		_	STORAGE FOR FIRST WD FORVAL (ALPHA)	F2304440
^	07113	ŏ	00454	ŏ	00000			0.0.300			E22044E0
	. 01113	•		•	07114	DO	BSS	1			F2304460
					07115		BSS	299			F2304470
					07570	DOZ	BSS	1			F2304480
					06721		ORG	3537			F2304490
								MASTER	RECO	RD CARD = FN041 FORTAG EMPTY NORM RET MONITOR. GO TO SPACE TAPE 1. TEST FOR EMPTY DOTAG OFF ON, EMPTY	F2304495
	06721	-0	53400	1	00733	BL3B	LXD	FORTAG-1:	1	FORTAG EMPTY	F2304500
	06722	3	02733	1	07616		TXH	NORMRT+1+	1499	NORM RET MONITOR. GO TO SPACE TAPE 1.	F2304515
	06723	-0	76000	0	00143		MSE	99		TEST FOR EMPTY DOTAG	F2304520
	06724	0	02000	0	06727		TRA	RDOTAG		OFF	F2304530
	06725	0	76000	0	00143		PSE	99		ON; EMPTY	F2304540
	06726	0	02000	0	07616		TRA	NORMRT		NORM RET MONITOR. GO TO SPACE TAPE I	F 2304555
	06727	-0	53400	6	06671	RDOTAG	LXD	L(6),6		INITIALIZE ERROR COUNTERS.	F 2304562
	06730	0	76400	0	00222	RDPOS	BST	TAPE2		POSITION TAPE 2 FOR DOTAG	F2304570
	06731	0	76400	0	00222		BSI	TAPEZ		·	F2304580
	06732	0	76200	0	00222		RDS	TAPEZ		TEST FOR EMPTY DOTAG OFF ON, EMPTY NORM RET MONITOR. GO TO SPACE TAPE 1 INITIALIZE ERROR COUNTERS. POSITION TAPE 2 FOR DOTAG	F230439U
	06733	0	70000	0	06770		CPY	RDESI			F2304600
-	06734	0	70000	0	06771		CPY	RDE 52			F2304610
A	06735	0	70000	0						ERROR. GO TO DIAGNOSTIC. ERROR. GO TO DIAGNOSTIC.	F2304620
			07400				15%	DIAG,4		ERROR GO TO DIAGNOSTIC	F2304633
	06737	0	07400	4	00004	00055	15%	DIAG 94		ERRORS GO TO DIAGNOSTICS	F2304643
	06740	0	50000	0	06770	RDREC	CLA	KDE21			F2304630
	06741	0	40200	0	06771		-	RDES2			F2304660
	06742	0	10000	Ú	06/45			RDBACK	. 3	ERROR - REREAD	F2304680
			00001						7 .	ERROR - REREAD ERROR. GO TO DIAGNOSTIC.	
	06744	Ü	07400	4	00004	000465		DIAG 4			F2304699
	06745	-0	53400	7	06/70	KUBACK	LAU	RDES1+1			F2304700 F2304710
	06746	1	00002	Ţ	06/4/			RDBST+1+2			F2304710
	06747	0	76400	Ü	00222	RDBST	114	RDBST+1+1		DUCKALUCE DESIGNATED NO VECOURS	F2304720
	06750	2	00001	ī	06/4/					MAY SIZE DOTAG	F2304740
	06751	-0	53400	Ţ	06673		LXU	L(1350,1		MAX SIZE DOTAG	1 2 3 V + 1 4 V

06752 0	76200	0 00222	RDRDS		TAPE2		F2304750
06753	70000	1 06377	RDCPY	CPY	DOTAGZ + 1	READ IN DOTAG	F2304760
	77777			TXI	RDCPY+1+-1		F2304770
••••	02000			TRA	RDEOF		F2304780
	02000			TRA	RDRDS		F2304790
06757 -0				SXD	DOTAG-1.1	DOTAG INDEX(1350-NO DOTAG ENTRIES)	F2304800
	76200			RDS	TAPE2	SPACE TAPE.	F2304810
	76200			RDS	TAPE2		F2304820
	76600	-		WRS	219		F2304830
06763 -0				RTT			F2304840
	02000				RDER	ON	F2304850
••••	02000			TRA	DOPASS		F2304860
	00001			TIX	RDPOS,2,1	TRY TWICE MORE.	F2304870
	07400			TSX	DIAG 4 TAPE	2. READING DOTAG. ERROR. GO TO DIAGNOSTIC.	
06770	00000	0 00000	RDES1	HTR		RECORD COUNT	F2304890
	00000			HTR		RECORD COUNT	F2304900
06772 -0	53400	1 03670	DOPASS	LXD	DOTAG-1:1	DOTAG INDEX.	F2304910
06773 -0	63400	1 07110		SXD	SYM40.1	INITIALIZE.	F2304920
06774 -0				SXD	SYM130+1	•	F2304930
06775 -0				SXD	SYM220 +1		F2304940
06776 -0				SXD	TRAW20+1	•	F2304950
06777 -0					TRAW50+1		F2304960
07000 -0	63400	1 07420	•		SPC040+1		F2304970
07000 -0					SPC090+1		F2304980
07002 -0	63400	1 00030			NAME-1.1	•	F2304990
07003 -0	63400	1 07261	•	SXD	GETN20+1	•	F2305000
01003 -	03400	- 0,20.			THIS ROUTINEM	AKES A PASS OVER FORTAG AND FOR EACH NON-	F2305010
			•		NEGATIVE TAG.	OBTAINS THE CORRESPONDING SUBSCRIPT COMBINATION	NF2305020
		-			NEGATIVE TAG,	OBTAINS THE CORRESPONDING SUBSCRIPT COMBINATION DRUM. THE SYMBOLS ARE PUT INTO THE LOCATIONS	F2305 0 30
					REGATIVE TAG.	OBTAINS THE CORRESPONDING SUBSCRIPT COMBINATION DRUM. THE SYMBOLS ARE PUT INTO THE LOCATIONS RSYM3. AND LOCATION TAGIND IS INITIALIZED.	F2305030 F2305040
					REGATIVE TAGS FROM THE TAU RSYM1, RSYM2, CONTROL THEN	OBTAINS THE CORRESPONDING SUBSCRIPT COMBINATION DRUM. THE SYMBOLS ARE PUT INTO THE LOCATIONS RSYM3, AND LOCATION TAGIND IS INITIALIZED. GOES TO ROUTINE SYMONE. UPON RETURN, THIS ENTRY	F2305030 F2305040 F2305050
					NEGATIVE TAG, FROM THE TAU I RSYMI, RSYM2, CONTROL THEN IN FORTAG AND	OBTAINS THE CORRESPONDING SUBSCRIPT COMBINATION DRUM. THE SYMBOLS ARE PUT INTO THE LOCATIONS RSYM3, AND LOCATION TAGIND IS INITIALIZED. GOES TO ROUTINE SYMONE. UPON RETURN, THIS ENTRY ALL OTHER NON- NEGATIVE ENTRIES CONTAINING	F2305030 F2305040 F2305050 F2305060
					NEGATIVE TAG, FROM THE TAU I RSYMI, RSYM2, CONTROL THEN IN FORTAG AND	OBTAINS THE CORRESPONDING SUBSCRIPT COMBINATION DRUM. THE SYMBOLS ARE PUT INTO THE LOCATIONS RSYM3, AND LOCATION TAGIND IS INITIALIZED. GOES TO ROUTINE SYMONE. UPON RETURN, THIS ENTRY ALL OTHER NON- NEGATIVE ENTRIES CONTAINING	F2305030 F2305040 F2305050 F2305060 F2305070
07004 -0	53400	1 00733	TAGPAS		NEGATIVE TAG, FROM THE TAU I RSYMI, RSYM2, CONTROL THEN IN FORTAG AND	OBTAINS THE CORRESPONDING SUBSCRIPT COMBINATION DRUM. THE SYMBOLS ARE PUT INTO THE LOCATIONS RSYM3, AND LOCATION TAGIND IS INITIALIZED. GOES TO ROUTINE SYMONE. UPON RETURN, THIS ENTRY ALL OTHER NON- NEGATIVE ENTRIES CONTAINING	F2305030 F2305040 F2305050 F2305060 F2305070 F2305080
07004 -0	53400	1 00733	TAGPAS	LXD	NEGATIVE TAG, FROM THE TAU I RSYMI, RSYM2, CONTROL THEN IN FORTAG AND	OBTAINS THE CORRESPONDING SUBSCRIPT COMBINATION DRUM. THE SYMBOLS ARE PUT INTO THE LOCATIONS RSYM3, AND LOCATION TAGIND IS INITIALIZED. GOES TO ROUTINE SYMONE. UPON RETURN, THIS ENTRY ALL OTHER NON- NEGATIVE ENTRIES CONTAINING	F2305030 F2305040 F2305050 F2305060 F2305070 F2305080 F2305090
07005 -0	63400	1 07601		LXD SXD	NEGATIVE TAG, FROM THE TAU I RSYMI, RSYM2, CONTROL THEN IN FORTAG AND	OBTAINS THE CORRESPONDING SUBSCRIPT COMBINATION DRUM. THE SYMBOLS ARE PUT INTO THE LOCATIONS RSYM3, AND LOCATION TAGIND IS INITIALIZED. GOES TO ROUTINE SYMONE. UPON RETURN, THIS ENTRY ALL OTHER NON- NEGATIVE ENTRIES CONTAINING	F2305030 F2305040 F2305050 F2305060 F2305070 F2305080 F2305090 F2305100
07005 -0	63400 63400	1 07601 1 07073		LXD SXD SXD	NEGATIVE TAG, FROM THE TAU I RSYMI, RSYM2, CONTROL THEN IN FORTAG AND	OBTAINS THE CORRESPONDING SUBSCRIPT COMBINATION DRUM. THE SYMBOLS ARE PUT INTO THE LOCATIONS RSYM3, AND LOCATION TAGIND IS INITIALIZED. GOES TO ROUTINE SYMONE. UPON RETURN, THIS ENTRY ALL OTHER NON- NEGATIVE ENTRIES CONTAINING	F2305030 F2305040 F2305050 F2305060 F2305070 F2305080 F2305090 F2305100 F2305110
07005 -0 07006 -0	63400 63400 63400	1 07601 1 07073 1 07076		LXD SXD SXD SXD	NEGATIVE TAG, FROM THE TAU I RSYMI, RSYM2, CONTROL THEN IN FORTAG AND	OBTAINS THE CORRESPONDING SUBSCRIPT COMBINATION DRUM. THE SYMBOLS ARE PUT INTO THE LOCATIONS RSYM3, AND LOCATION TAGIND IS INITIALIZED. GOES TO ROUTINE SYMONE. UPON RETURN, THIS ENTRY ALL OTHER NON- NEGATIVE ENTRIES CONTAINING	F2305030 F2305040 F2305050 F2305060 F2305080 F2305080 F2305090 F2305110 F2305120
07005 -0 07006 -0 07007 -0	63400 63400 63400	1 07601 1 07073 1 07076 1 06674		LXD SXD SXD SXD LXD	NEGATIVE TAG, FROM THE TAU I RSYMI, RSYM2, CONTROL THEN IN FORTAG AND	OBTAINS THE CORRESPONDING SUBSCRIPT COMBINATION DRUM. THE SYMBOLS ARE PUT INTO THE LOCATIONS RSYM3, AND LOCATION TAGIND IS INITIALIZED. GOES TO ROUTINE SYMONE. UPON RETURN, THIS ENTRY ALL OTHER NON- NEGATIVE ENTRIES CONTAINING	F2305030 F2305040 F2305050 F2305060 F2305070 F2305080 F2305090 F2305100 F2305110 F2305120 F2305130
07005 -0 07006 -0 07007 -0 07010 -0	63400 63400 63400 53400 50000	1 07601 1 07073 1 07076 1 06674 1 03676	TAGP10	LXD SXD SXD SXD LXD CLA	NEGATIVE TAG, FROM THE TAU I RSYMI, RSYM2, CONTROL THEN IN FORTAG AND	OBTAINS THE CORRESPONDING SUBSCRIPT COMBINATION DRUM. THE SYMBOLS ARE PUT INTO THE LOCATIONS RSYM3, AND LOCATION TAGIND IS INITIALIZED. GOES TO ROUTINE SYMONE. UPON RETURN, THIS ENTRY ALL OTHER NON- NEGATIVE ENTRIES CONTAINING	F2305030 F2305040 F2305050 F2305060 F2305070 F2305080 F2305100 F2305110 F2305120 F2305120 F2305140
07005 -0 07006 -0 07007 -0 07010 -0 07011 0	63400 63400 53400 53400 50000	1 07601 1 07073 1 07076 1 06674 1 03676 0 07075	TAGP10	LXD SXD SXD SXD LXD CLA TMI	NEGATIVE TAG, FROM THE TAU I RSYMI, RSYM2, CONTROL THEN IN FORTAG AND	OBTAINS THE CORRESPONDING SUBSCRIPT COMBINATION DRUM. THE SYMBOLS ARE PUT INTO THE LOCATIONS RSYM3, AND LOCATION TAGIND IS INITIALIZED. GOES TO ROUTINE SYMONE. UPON RETURN, THIS ENTRY ALL OTHER NON- NEGATIVE ENTRIES CONTAINING	F2305030 F2305040 F2305050 F2305060 F2305070 F2305090 F2305100 F2305110 F2305120 F2305130 F2305130 F2305150
07005 -0 07006 -0 07007 -0 07010 -0 07011 0 07012 -0	63400 63400 53400 53400 50000 12000	1 07601 1 07073 1 07076 1 06674 1 03670 0 07075 0 06703	TAGP10	LXD SXD SXD SXD LXD CLA TMI	NEGATIVE TAG, FROM THE TAU (RSYMI, RSYM2, CONTROL THEN (IN FORTAG AND THIS TAG ARE: FORTAG-1,1 TINF30,1 TAGP80,1 TAGP80,1 L(1500,1 FORTZ,1 TAGP94 ADDMSK	OBTAINS THE CORRESPONDING SUBSCRIPT COMBINATION DRUM. THE SYMBOLS ARE PUT INTO THE LOCATIONS RSYM3, AND LOCATION TAGIND IS INITIALIZED. GOES TO ROUTINE SYMONE. UPON RETURN, THIS ENTRY ALL OTHER NON- NEGATIVE ENTRIES CONTAINING	F2305030 F2305040 F2305050 F2305060 F2305070 F2305090 F2305100 F2305110 F2305120 F2305120 F2305130 F2305140 F2305150 F2305160
07005 -0 07006 -0 07007 -0 07010 -0 07011 0 07012 -0 07013 -0	63400 63400 53400 50000 12000 32000 60100	1 07601 1 07073 1 07076 1 06674 1 03676 0 07075 0 06703	TAGP10	LXD SXD SXD SXD LXD CLA TMI ANA STO	NEGATIVE TAG, FROM THE TAU (RSYMI, RSYM2, CONTROL THEN (IN FORTAG AND THIS TAG ARE: FORTAG-1,1 TINF30,1 TAGP80,1 TAGP80,1 L(1500,1 FORTZ,1 TAGP94 ADDMSK	OBTAINS THE CORRESPONDING SUBSCRIPT COMBINATION DRUM. THE SYMBOLS ARE PUT INTO THE LOCATIONS RSYM3. AND LOCATION TAGIND IS INITIALIZED. GOES TO ROUTINE SYMONE. UPON RETURN. THIS ENTRY ALL OTHER NON- NEGATIVE ENTRIES CONTAINING SET NEGATIVE. IF NEG. GET NEXT FORTAG TAG	F2305030 F2305040 F2305050 F2305060 F2305070 F2305090 F2305100 F2305110 F2305120 F2305120 F2305140 F2305150 F2305150 F2305160 F2305170
07005 -0 07006 -0 07007 -0 07010 -0 07011 0 07012 -0 07013 -0 07014 0	63400 63400 53400 50000 12000 32000 60100	1 07601 1 07073 1 07076 1 06674 1 03676 0 07075 0 06703 0 06626 1 07077	TAGP10	LXD SXD SXD SXD LXD CLA TMI ANA STO SXD	NEGATIVE TAG, FROM THE TAU (RSYM1, RSYM2, CONTROL THEN (IN FORTAG AND THIS TAG ARE: FORTAG-1,1 TINF30,1 TAGP80,1 TAGP80,1 L(1500+1 FORTZ,1 TAGP94 ADDMSK TAG	OBTAINS THE CORRESPONDING SUBSCRIPT COMBINATION DRUM. THE SYMBOLS ARE PUT INTO THE LOCATIONS RSYM3, AND LOCATION TAGIND IS INITIALIZED. GOES TO ROUTINE SYMONE. UPON RETURN, THIS ENTRY ALL OTHER NON- NEGATIVE ENTRIES CONTAINING SET NEGATIVE.	F2305030 F2305040 F2305050 F2305060 F2305070 F2305090 F2305100 F2305110 F2305120 F2305120 F2305130 F2305150 F2305150 F2305160 F2305170 F2305180
07005 -0 07006 -0 07007 -0 07010 -0 07011 -0 07012 -0 07013 -0 07014 -0 07015 -0	63400 63400 53400 53400 12000 32000 60100 63400 97400	1 07601 1 07073 1 07076 1 06674 1 03676 0 07075 0 06703 0 06626 1 07077 4 07701	TAGP10	LXD SXD SXD SXD LXD CLA TMI ANA STO SXD TSX	NEGATIVE TAG, FROM THE TAU (RSYM1, RSYM2, CONTROL THEN (IN FORTAG AND THIS TAG ARE: FORTAG-1,1 TINF30,1 TAGP80,1 TAGP98,1 L(1500,1 FORTZ,1 TAGP94 ADDMSK TAG TAGX,1 SUBCOM,4	OBTAINS THE CORRESPONDING SUBSCRIPT COMBINATION DRUM. THE SYMBOLS ARE PUT INTO THE LOCATIONS RSYM3. AND LOCATION TAGIND IS INITIALIZED. GOES TO ROUTINE SYMONE. UPON RETURN. THIS ENTRY ALL OTHER NON- NEGATIVE ENTRIES CONTAINING SET NEGATIVE. IF NEG. GET NEXT FORTAG TAG	F2305030 F2305040 F2305050 F2305060 F2305070 F2305090 F2305100 F2305110 F2305120 F2305120 F2305140 F2305150 F2305150 F2305160 F2305170
07005 -0 07006 -0 07007 -0 07010 -0 07011 -0 07012 -0 07013 -0 07014 -0 07016 -0	63400 63400 53400 53400 12000 32000 60100 63400 53400	1 07601 1 07073 1 07076 1 06674 1 03676 0 0703 0 06626 1 07077 4 07701 4 06676	TAGP10	LXD SXD SXD SXD LXD CLA TMI ANA STO SXD TSX	NEGATIVE TAG, FROM THE TAU (RSYMI, RSYM2, CONTROL THEN IN FORTAG AND THIS TAG ARE: FORTAG-1+1 TINF30,1 TAGP80,1 TAGP98,1 L(1500,1 FORTZ,1 TAGP94 ADDMSK TAG TAGX,1 SUBCOM,4 L(3),4	OBTAINS THE CORRESPONDING SUBSCRIPT COMBINATION DRUM. THE SYMBOLS ARE PUT INTO THE LOCATIONS RSYM3, AND LOCATION TAGIND IS INITIALIZED. GOES TO ROUTINE SYMONE. UPON RETURN, THIS ENTRY ALL OTHER NON- NEGATIVE ENTRIES CONTAINING SET NEGATIVE. IF NEG. GET NEXT FORTAG TAG SAVE CURRENT FORTAG IX OBTAIN AND DISPERSE THE TAU TABLES.	F2305030 F2305040 F2305050 F2305060 F2305080 F2305090 F2305110 F2305120 F2305120 F2305130 F2305140 F2305150 F2305160 F2305170 F2305170 F2305190 F2305190 F2305200
07005 -0 07006 -0 07007 -0 07010 -0 07011 0 07012 -0 07013 -0 07014 0 07015 -0 07017 -0	63400 63400 53400 53400 12000 32000 60100 63400 53400 53400	1 07601 1 07073 1 07076 1 06674 1 03670 0 06703 0 06626 1 07077 4 06670	TAGP10	LXD SXD SXD LXD CLA TMI ANA STO SXD TSX LXD PXD	NEGATIVE TAG, FROM THE TAU (RSYM1, RSYM2, CONTROL THEN (IN FORTAG AND THIS TAG ARE: FORTAG-1,1 TINF30,1 TAGP80,1 TAGP98,1 L(1500,1 FORTZ,1 TAGP94 ADDMSK TAG TAGX,1 SUBCOM,4 L(3),4	OBTAINS THE CORRESPONDING SUBSCRIPT COMBINATION DRUM. THE SYMBOLS ARE PUT INTO THE LOCATIONS RSYM3. AND LOCATION TAGIND IS INITIALIZED. GOES TO ROUTINE SYMONE. UPON RETURN. THIS ENTRY ALL OTHER NON- NEGATIVE ENTRIES CONTAINING SET NEGATIVE. IF NEG. GET NEXT FORTAG TAG	F2305030 F2305040 F2305050 F2305060 F2305070 F2305090 F2305100 F2305110 F2305120 F2305130 F2305140 F2305150 F2305140 F2305150 F2305160 F2305160 F2305180 F2305190
07005 -0 07006 -0 07007 -0 07010 -0 07011 -0 07012 -0 07013 -0 07014 -0 07015 -0 07017 -0 07020 -0 07021 -0	63400 63400 53400 53400 12000 32000 60100 63400 75400 75400 60100	1 07601 1 07073 1 07076 1 06674 1 03676 0 07073 0 06676 0 06676 4 0770 4 06676 0 00006 4 06635	TAGP10	LXD SXD SXD SXD LXD CLA TMI ANA STO SXD TSX LXD PXD STO	NEGATIVE TAG, FROM THE TAU (RSYMI, RSYM2, CONTROL THEN IN FORTAG AND THIS TAG ARE: FORTAG-1+1 TINF30,1 TAGP80,1 TAGP98,1 L(1500,1 FORTZ,1 TAGP94 ADDMSK TAG TAGX,1 SUBCOM,4 L(3),4	OBTAINS THE CORRESPONDING SUBSCRIPT COMBINATION DRUM. THE SYMBOLS ARE PUT INTO THE LOCATIONS RSYM3. AND LOCATION TAGIND IS INITIALIZED. GOES TO ROUTINE SYMONE. UPON RETURN. THIS ENTRY ALL OTHER NON- NEGATIVE ENTRIES CONTAINING SET NEGATIVE. IF NEG. GET NEXT FORTAG TAG SAVE CURRENT FORTAG IX OBTAIN AND DISPERSE THE TAU TABLES. INITIALIZE RSYM LOCATIONS WITH ZERO.	F2305030 F2305050 F2305050 F2305060 F2305080 F2305080 F2305100 F2305110 F2305120 F2305120 F2305130 F2305140 F2305160 F2305170 F2305170 F2305170 F2305180 F2305190 F2305220
07005 -0 07006 -0 07007 -0 07010 -0 07011 0 07012 -0 07013 -0 07014 0 07015 -0 07016 0 07017 -0 07020 -0 07022 2	63400 63400 63400 53400 50000 12000 32000 60100 63400 75400 75400 60100	1 07601 1 07073 1 07076 1 06674 1 03670 0 06703 0 06626 1 07770 4 06670 0 00000 4 06635 4 07023	TAGP10	LXD SXD SXD LXD CLA TMI ANA STO SXD TSX LXD PXD STO TIX	NEGATIVE TAG, FROM THE TAU (RSYMI, RSYM2, CONTROL THEN (IN FORTAG AND THIS TAG ARE: FORTAG-1,1 TINF30,1 TAGP80,1 TAGP98,1 L(1500,1 FORTZ,1 TAGP94 ADDMSK TAG TAGX,1 SUBCOM,4 L(3),4 0,0 RSYM1+3,4	OBTAINS THE CORRESPONDING SUBSCRIPT COMBINATION DRUM. THE SYMBOLS ARE PUT INTO THE LOCATIONS RSYM3. AND LOCATION TAGIND IS INITIALIZED. GOES TO ROUTINE SYMONE. UPON RETURN. THIS ENTRY ALL OTHER NON- NEGATIVE ENTRIES CONTAINING SET NEGATIVE. IF NEG. GET NEXT FORTAG TAG SAVE CURRENT FORTAG IX OBTAIN AND DISPERSE THE TAU TABLES. INITIALIZE RSYM LOCATIONS WITH ZERO.	F2305030 F2305050 F2305050 F2305060 F2305080 F2305080 F2305100 F2305110 F2305120 F2305120 F2305130 F2305150 F2305160 F2305160 F2305160 F2305160 F2305170 F2305180 F2305190 F2305200 F2305220 F2305220 F2305220 F2305230
07005 -0 07006 -0 07007 -0 07010 -0 07011 -0 07012 -0 07014 -0 07015 -0 07016 -0 07017 -0 07020 -0 07022 -0 07023 -0	63400 63400 63400 53400 50000 12000 32000 60100 63400 75400 75400 60100 00001 53400	1 07601 1 07073 1 07076 1 06674 1 03670 0 07075 0 06626 1 07074 4 06670 0 00000 4 06635 4 07021 1 06671	TAGP10	LXD SXD SXD LXD CLA TMI ANA STO SXD LXD FXD STO TIX LXD	NEGATIVE TAG, FROM THE TAU (RSYMI, RSYM2, CONTROL THEN (IN FORTAG AND THIS TAG ARE (FORTAG-1,1 TINF30,1 TAGP90,1 TAGP98,1 L(1500,1 FORTZ,1 TAGP94 ADDMSK TAG TAGX,1 SUBCOM,4 L(3),4 0,0 RSYM1+3,4 TAGP20,4,1 L(6),1	OBTAINS THE CORRESPONDING SUBSCRIPT COMBINATION DRUM. THE SYMBOLS ARE PUT INTO THE LOCATIONS RSYM3. AND LOCATION TAGIND IS INITIALIZED. GOES TO ROUTINE SYMONE. UPON RETURN. THIS ENTRY ALL OTHER NON- NEGATIVE ENTRIES CONTAINING SET NEGATIVE. IF NEG. GET NEXT FORTAG TAG SAVE CURRENT FORTAG IX OBTAIN AND DISPERSE THE TAU TABLES. INITIALIZE RSYM LOCATIONS WITH ZERO.	F2305030 F2305040 F2305050 F2305060 F2305080 F2305080 F2305100 F2305110 F2305120 F2305120 F2305130 F2305140 F2305150 F2305160 F2305160 F2305170 F2305190 F2305200 F2305200 F2305210 F2305220 F2305230 F2305230 F2305240
07005 -0 07006 -0 07007 -0 07010 -0 07011 -0 07013 -0 07014 -0 07015 -0 07017 -0 07020 -0 07021 -0 07022 -0 07023 -0	63400 63400 53400 53400 50000 12000 32000 60100 63400 75400 60100 00001 53400 53400	1 07601 1 07073 1 07076 1 03676 0 07075 0 06703 0 06626 1 07077 4 0770 4 06676 0 00000 4 06635 4 07635 1 06676	TAGP10	LXD SXD SXD LXD CLA TMI ANA STO SXD TSX LXD PXD STO TIX LXD LXD	NEGATIVE TAG, FROM THE TAU (RSYMI, RSYM2, CONTROL THEN (IN FORTAG AND THIS TAG ARE: FORTAG-1,1 TINF30,1 TAGP80,1 TAGP98,1 L(1500,1 FORTZ,1 TAGP94 ADDMSK TAG TAGX,1 SUBCOM,4 L(3),4 0,0 RSYM1+3,4 TAGP20,4,1	OBTAINS THE CORRESPONDING SUBSCRIPT COMBINATION DRUM. THE SYMBOLS ARE PUT INTO THE LOCATIONS RSYM3. AND LOCATION TAGIND IS INITIALIZED. GOES TO ROUTINE SYMONE. UPON RETURN. THIS ENTRY ALL OTHER NON- NEGATIVE ENTRIES CONTAINING SET NEGATIVE. IF NEG. GET NEXT FORTAG TAG SAVE CURRENT FORTAG IX OBTAIN AND DISPERSE THE TAU TABLES. INITIALIZE RSYM LOCATIONS WITH ZERO.	F2305030 F2305040 F2305050 F2305060 F2305080 F2305080 F2305100 F2305120 F2305120 F2305120 F2305120 F2305140 F2305150 F2305160 F2305160 F2305170 F2305190 F2305200 F2305200 F2305210 F2305230 F2305230 F2305230 F2305230
07005 -0 07006 -0 07007 -0 07010 -0 07011 -0 07013 -0 07014 -0 07015 -0 07016 -0 07020 -0 07021 -0 07022 -0 07023 -0 07025 -0	63400 63400 53400 53400 12000 32000 60100 63400 75400 60100 00001 53400 53400	1 07601 1 07073 1 07076 1 06674 1 03670 0 06703 0 06626 1 07077 4 07703 4 06670 4 06635 4 07023 1 06670 2 06670	TAGP10	LXD SXD SXD LXD CLA TMI ANA STO SXD TSX LXD PXD TIX LXD LXD LXD	NEGATIVE TAG, FROM THE TAU (RSYMI, RSYM2, CONTROL THEN (IN FORTAG AND THIS TAG ARE: FORTAG-1,1 TINF30,1 TAGP80,1 TAGP98,1 L(1500,1 FORTZ,1 TAGP94 ADDMSK TAG TAGX,1 SUBCOM,4 L(3),4 0,0 RSYM1+3,4 TAGP20,4,1 L(6),1 L(3),2 L(0),4	OBTAINS THE CORRESPONDING SUBSCRIPT COMBINATION DRUM. THE SYMBOLS ARE PUT INTO THE LOCATIONS RSYM3, AND LOCATION TAGIND IS INITIALIZED. GOES TO ROUTINE SYMONE. UPON RETURN, THIS ENTRY ALL OTHER NON- NEGATIVE ENTRIES CONTAINING SET NEGATIVE. IF NEG. GET NEXT FORTAG TAG SAVE CURRENT FORTAG IX OBTAIN AND DISPERSE THE TAU TABLES. INITIALIZE RSYM LOCATIONS WITH ZERO.	F2305030 F2305040 F2305050 F2305060 F2305080 F2305080 F2305100 F2305110 F2305120 F2305120 F2305130 F2305140 F2305150 F2305160 F2305160 F2305170 F2305190 F2305200 F2305200 F2305210 F2305220 F2305230 F2305230 F2305240
07005 -0 07006 -0 07007 -0 07010 -0 07011 -0 07013 -0 07014 -0 07015 -0 07017 -0 07020 -0 07021 -0 07022 -0 07023 -0 07024 -0 07025 -0 07026 -0	63400 63400 53400 53400 12000 32000 60100 63400 75400 60100 00001 53400 53400 53400 53400	1 07601 1 07073 1 07076 1 03676 0 03676 0 06703 0 06626 1 07077 4 07701 4 06676 0 00000 4 06635 4 0707 1 06676 2 06676 1 06644	TAGP20	LXD SXD SXD LXD CLA TMI ANA STO SXD TSX LXD PXD STO TIX LXD LXD CLA	NEGATIVE TAG, FROM THE TAU (RSYMI, RSYM2, CONTROL THEN (IN FORTAG AND THIS TAG ARE: FORTAG-1,1 TINF30,1 TAGP80,1 TAGP98,1 L(1500,1 FORTZ,1 TAGP94 ADDMSK TAG TAGX,1 SUBCOM,4 L(3),4 0,0 RSYM1+3,4 TAGP20,4,1 L(6),1 L(3),2 L(0),4 S1+6,1	OBTAINS THE CORRESPONDING SUBSCRIPT COMBINATION DRUM. THE SYMBOLS ARE PUT INTO THE LOCATIONS RSYM3. AND LOCATION TAGIND IS INITIALIZED. GOES TO ROUTINE SYMONE. UPON RETURN. THIS ENTRY ALL OTHER NON- NEGATIVE ENTRIES CONTAINING SET NEGATIVE. IF NEG. GET NEXT FORTAG TAG SAVE CURRENT FORTAG IX OBTAIN AND DISPERSE THE TAU TABLES. INITIALIZE RSYM LOCATIONS WITH ZERO.	F2305030 F2305040 F2305050 F2305060 F2305080 F2305080 F2305100 F2305120 F2305120 F2305120 F2305120 F2305140 F2305150 F2305160 F2305160 F2305170 F2305190 F2305200 F2305200 F2305210 F2305230 F2305230 F2305230 F2305230
07005 -0 07006 -0 07007 -0 07010 -0 07011 -0 07013 -0 07015 -0 07016 -0 07017 -0 07020 -0 07021 -0 07022 -0 07023 -0 07025 -0 07026 -0 07027 -0	63400 63400 53400 53400 12000 32000 60100 63400 75400 60100 00001 53400 53400	1 07601 1 07073 1 07076 1 06674 1 03676 0 06703 0 06626 1 07077 4 07703 4 07023 1 06676 4 06665 1 06676 4 06665 1 06676	TAGP10	LXD SXD SXD LXD CLA TMI ANA STO SXD TSX LXD PXD TIX LXD LXD CLA TZE	NEGATIVE TAG, FROM THE TAU (RSYMI, RSYM2, CONTROL THEN (IN FORTAG AND THIS TAG ARE: FORTAG-1,1 TINF30,1 TAGP80,1 TAGP98,1 L(1500,1 FORTZ,1 TAGP94 ADDMSK TAG TAGX,1 SUBCOM,4 L(3),4 0,0 RSYM1+3,4 TAGP20,4,1 L(6),1 L(3),2 L(0),4	OBTAINS THE CORRESPONDING SUBSCRIPT COMBINATION DRUM. THE SYMBOLS ARE PUT INTO THE LOCATIONS RSYM3, AND LOCATION TAGIND IS INITIALIZED. GOES TO ROUTINE SYMONE. UPON RETURN, THIS ENTRY ALL OTHER NON- NEGATIVE ENTRIES CONTAINING SET NEGATIVE. IF NEG. GET NEXT FORTAG TAG SAVE CURRENT FORTAG IX OBTAIN AND DISPERSE THE TAU TABLES. INITIALIZE RSYM LOCATIONS WITH ZERO. GET SYMBOL IF ZERO, GET NEXT SYMBOL	F2305030 F2305040 F2305050 F2305060 F2305080 F2305080 F2305100 F2305120 F2305120 F2305120 F2305120 F2305140 F2305150 F2305160 F2305160 F2305200 F2305200 F2305200 F2305200 F2305200 F2305200 F2305200 F2305200 F2305200 F2305200 F2305200 F2305200 F2305200 F2305200 F2305200 F2305200 F2305200 F2305200 F2305200 F2305200 F2305200 F2305200 F2305200 F2305200 F2305200 F2305200 F2305200 F2305200

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F2305290
                             CAS RSYM1
                                               CHECK FOR DUPLICATE SYMBOLS.
      0 34000 0 06632
07031
                                                                                             F2305300
                             TRA TAGP32
07032 0 02000 0 07034
                                               SYMBOL DUPLICATES RSYM1.
                                                                                             F2305310
                             TXI TAGP40,4,1
07033
      1 00001 4 07041
      0 34000 0 06633 TAGP32 CAS RSYM2
                                                                                             F2305320
07034
                                                                                             F2305330
                             TRA TAGP34
07035
      0 02000 0 07037
                             TXI TAGP40,4,1
                                               SYMBOL DUPLICATES RSYM2.
                                                                                             F2305340
      1 00001 4 07041
07036
      0 60100 2 06635 TAGP34 STO RSYM1+3+2
                                                                                             F2305350
07037
                             TXI TAGP40:2:-1
                                               BUMP DELTA COUNTER.
                                                                                             F2305360
67040
      1 77777 2 07041
     2 00002 1 07026 TAGP40 TIX TAGP30:1:2
                                                                                             F2305370
07041
07042 -0 75400 2 00000
                             PXD 0.2
                                               COMPUTE
                                                                                             F2305380
                                               DELTA AS NO
                                                                                             F2305390
                             SSM
07043 -0 76000 0 00003
                             ADD L(3)
                                               OF DISTINCT SYMBOLS.
                                                                                             F2305400
07044
     0 40000 0 06670
                                               CONSTANT SUBSCRIPT.
                                                                                             F2305410
                             TZE TAGP50
07045
     0 10000 0 07062
07046 0 60100 0 06631
                             STO DELTA
                                                                                             F2305420
                                                                                             F2305430
                             LXD L(0),2
07047 -0 53400 2 06665
                                               IF DUPES. SET TAGIND TO ZERO
                                                                                             F2305440
07050 3 00000 4 07060
                             TXH TAGP45,4,0
                                                                                             F2305450
07051 0 40200 0 06666
                             SUB L(1)
                             TNZ TAGP45
                                               IF DELTA OTHER THAN ONE, SET TAGIND TO ZERO
                                                                                             F2305460
07052 -0 10000 0 07060
                                                                                             F2305470
07053 0 50000 0 06636
                             CLA S1
                             TZE TAGP45
                                               IF SUBSCRIPT CONSTANT, SET TAGIND TO ZERO
                                                                                             F2305480
07054
      0 10000 0 07060
                             LXD C1.1
                                               IF COEFF OTHER THAN 1 SET TAGIND TO ZERO
                                                                                             F2305490
07055 -0 53400 1 06635
                             TXH TAGP45 +1 +1
                                                                                             F2305500
07056 3 00001 1 07060
                             LXD L(1),2
                                               OTHERWISE SET TAGIND TO ONE.
                                                                                             F2305510
07057 -0 53400 2 06666
                                                                                             F2305520
07060 -0 63400 2 06630 TAGP45 SXD TAGIND+2
07061 0 02000 0 07100
                             TRA SYMONE
                                               GO TO ANALYZE DONEST.
                                                                                            F2305530
                                                                                            F2305540
07062 -0 53400 1 07077 TAGP50 LXD TAGX:1
                                               IF ANY
                                               OF THE AS YET UNTREATED
07063 0 50000 1 03670 TAGP60 CLA FORTZ:1
                                                                                            F2305550
07064 -0 12000 0 07072 TMI TAGP70
                                                                                            F2305560
                                               FORTAGS
07065 -0 32000 0 06703
                             ANA ADDMSK
                                               ARE
                                                                                             F2305570
                                               THE SAME AS THAT TAG
                                                                                            F2305580
                             SUB TAG
07066 0 40200 0 06626
                             TNZ TAGP70
                                               JUST TREATED,
                                                                                             F2305590
07067 -0 10000 0 07072
                             CAL L(MZ)
                                               SET THEM
                                                                                             F2305600
07070 -0 50000 0 06676
                                               MINUS.
                                                                                             F2305610
                             ORS FORTZ 1
07071 -0 60200 1 03670
07072 1 77777 1 07073 TAGP70 TXI TAGP80,1,-1
                                                                                           F2305620
                                                   ( DEC HAS FORTAG IX)
                                                                                             F2305630
07073 3 00000 1 07063 TAGP80 TXH TAGP60,1
07074 -0 53400 1 07077 TAGP90 LXD TAGX.1
                                                                                             F2305640
     1 77777 1 07076 TAGP94 TXI TAGP98+1+-1 IF ALL OF FORTAG
                                                                                             F2305650
07076 3 00000 1 07011 TAGP98 TXH TAGP10+1
                                               HAS BEEN COMPLETED. (DEC HAS FORTAG IX)
07077 -3 00000 0 07616 TAGX TXL NORMRT +0
                                               NORMAL RET MONITOR. (DEC HAS CURR FORTAG IX) F2305675
                                 ROUTINE SYMONE FINDS DOFORMULAS DEFINING SOME SYMBOL IN THIS F2305680
                                 SC. IT USES TRAWRD TO DETERMINE WHETHER OR NOT ROUTINE
                                                                                          F2305690
                                 PROCESS SHOULD BE USED.
                                                                                             F2305700
                                 IF MORE THAN ONE SYMBOL, IT THEN USES ROUTINE SYM2.
                                                                                             F2305710
07100 -0 53400 1 06673 SYMONE LXD L(1350.1
                                                                                             F2305720
07101 -0 53400 2 06670 SYM10 LXD L(3)+2
                                                                                             F2305730
                                                                                             F2305740
                                               GET NEXT DOTAG SYMBOL.
07102 0 50000 1 06400
                             CLA DOTAGZ+1+1
07103 0 34000 2 06635 SYM20 CAS RSYM1+3,2
                                               IS IT SAME AS SUBSCRIPT SYMBOL.
                                                                                             F2305750
                                                                                             F2305760
       0 02000 0 07106
                             TRA SYM30
07104
                                               YES
                             TRA SYM50
                                                                                             F2305770
      0 02000 0 07112
07105
      2 00001 2 07103 SYM30 TIX SYM20,2,1
                                                                                             F2305780
                             TXI SYM40,1,-9
                                                                                             F2305790
     1 77767 1 07110
07107
      3 00000 1 07101 SYM40 TXH SYM10,1
                                               END OF DOTAG. RETURN.
                                                                                             F2305800
07110
                                                                                             F2305810
                             TRA TAGP50
07111 0 02000 0 07062
      0 50000 0 06632 SYM50 CLA RSYM1
                                             INTERCHANGE THE
                                                                                             F2305820
07112
```

	^	E / 000	2	04435		100	DCVM1+2-2	MATCHING SUBSCRIPT	F2305830
07113	Ň	50000	2	06635		STO	PSYM1+3+2	SYMBOL WITH	F2305840
07114	Ň	90100	~	06633		STO	DCVM1	RSYM1.	F2305850
01112	-0	50000	·	06032		514	DOTAG7+5-1		F2305860
07116	O	50000	Ť	06404		CLA	DECHER	STORE LEVEL	F2305870
07117	-0	32000	0	06/04		ANA	DECMOR	STORE LEVEL	F2305010
07120	0	60100	0	06647		510	LRI	UP	F2303660
07121	0	60100	0.	06645		STO	TL2	DOTAG	F2305890
07122	-0	63400	1	06646		SXD	XR1+1	THIS DOTAG IS RI.	F2305900
07123	-0	53400	4	06631		LXD	DELTA • 4	IF DELTA IS	F2305910
07124	-0	53400	2	06666		LXD	L(1),2	ONE, THEN	F2305920
07125	-3	00001	4	07127		TXL	SYM60,4,1	NO TRAWORD SKIP.	F2305930
07126	-0	53400	2	06667		LXD	L(2),2	OTHERWISE, TRAWORD SKIP.	F2305940
07127	ŏ	07400	7	07513	SYM60	TSX	TRAWRD • 4		F2305950
07120	-0	63400	1	06650	011.00	SXD	NEXTR1 • 1	SAVE INDEX LAST DOTAG HANDLED.	F2305960
07121	~~	10000	ñ	07135		TZF	SYM70	ARE THERE TRANSFERS OUT (TRABITS).	F2305970
0/131	-0	10000	ĭ	01133		1 40	YP1.1	YES, LOAD IARA FOR MATCHING DOTAG.	F2305980
07132	-0	53400	7	06646		LXD	1.111.2	A ONE TELLS PROCESS THAT	F2305990
0/133	-0	23400	4	00000		TEV	DDOCES.A	CALLED WAS SYMONE. (B).	F2306000
07134	. 0	0/400	4	01236	~~~~~	124	PRUCES 14	NO TRANSCERS OUT ITRADITS	F2306010
07135	-0	53400	4	06631	SYM70	LXU	DELIA 4	TE DELTA LE CREATER THAN ONE. THEN	F2306010
07136	-3	00001	4	07142		IXL	SYM809491	IF DELIA IS GREATER THAN ONE FINEN	F2306020
07137	-0	53400	1	06646		LXD	XR1+1	LOAD INDEX REG FOR MAICHING DOTAG.	F2306030
07140	-0	53400	2	06647		LXD	LR1,2	AND LEVEL AND	F2306040
07141	0	02000	0	07144		TRA	SYM2	GO TO SECOND LEVEL SEARCH.	F 2306050
07142	-0	53400	1	06650	SYM80	LXD	NEXTR1.1	DELTA IS ONE,	F2306060
07143	0	02000	0	07110		TRA	SYM40	CONTINUE FIRST LEVEL SEARCH.	F2306070
•							ROUTINE SYMTWO	MAKES A SECOND LEVEL SEARCH AMONG THOSE DOS	F2306080
							NESTED WITHIN	THE DO MATCHING RSYMI. USES PROCESS ROUTINE	F2306090
							IF NECESSARY.	AND ROUTINE SYM3 IF NECESSARY.	F2306100
07144	-0	63400	2	07150	SYM2	SXD	SYM100.2	INITIALIZE LEVEL TEST	F2306110
07145	ŏ	02000	ñ	07157	• • • • • • • • • • • • • • • • • • • •	TRA	SYM120		F2306120
07145	ŏ	50000	,	06404	SYMOO	CLA	DOTAGZ+5 • 1	GET LEVEL OF	F2306130
07140	- 0	30400	2	00000	317170	BDX	0.2	NEW DOTAG AND	F2306140
0/14/	-0	73400	-	07110	CVM100	TVI	SYM/0.2	TEST AGAINST LEVEL OF R1 AND	F2306150
0/150	-,	00000	۲,	0/110	311100		DOTAG7+1+1	IE WITHIN PANGE OF RIA	F2306160
07151	0	50000	Ţ	06400		CLA	DCYM2	TECT MATCH DOTAG SYMBOL AGAINST DSYM2.	F2306170
07152	0	34000	0	06633		CAS	KSIM2	1231 MAICH DOTAG STMBOL AGAINST KSTM2.	F2306170
07153	.0	02000	0	07155		TRA	SYMITO	MATCHES GO TO TREAT DO.	F2306100
07154	0	02000	0	07166		IKA	STMIDU	MAICHES & OU TO INCAT KZE	F2306190
07155	0	40200	0	06634	SYM110	SUB	RSYM3	DUESNI MAICH RSTM29 IRT RSTM30	F2306200
07156	0	10000	0	07162		TZE	SYM140		F2306210
07157	1	77767	1	07160	SYM120	TXI	SYM130,1,-9	GET NEXT DOTAG	F2306220
07160	3	00000	1	07146	SYM130	TXH	SYM90 • 1	(DEC CONTAINS DOTAG IX)	F2306230
07161	0	02000	0	07110		TRA	SYM40	IF END OF DOTAG, EXIT.	F2306240
07162	0	50000	0	06633	SYM140	CLA	RSYM2	DOTAG SYMBOL MATCHES RSYM3 -	F2306250
07163	ō	56000	ō	06634		LDQ	RSYM3	INTERCHANGE	F2306260
07164	ō	60100	ō	06634		STO	RSYM3	RSYM2 AND	F2306270
07165	-0	60000	õ	06633		STO	RSYM2	RSYM3.	F2306280
07144	-0	63400	1	06651	SYM150	SXD	XR2 • 1	THIS DOTAG IS R2	F2306290
07147	-0	63400	2	06652	3	SXD	LR2•2	SAVE ITS LEVEL .	F2306300
0/10/	-0	52/00	2	06666		LXD	1 (1) •2	IF DELTA IS	F2306310
01110	-0	52400	1.	06660		LAU	DEL TA.4	TWO OR ONE . THEN	F2306320
0/1/1	-0	22400	+	00031		TVI	SYM160 c4 c2	NO TRAWORD SKIP.	F2306330
07172	-3	00002	4	0/1/4		IVE	1 (2) -2	OTHERWISE TRAWORD SKIP.	F2306340
07173	-0	53400	2	06667	evu	LAU	TO AUDD . 4	ALLIEURISE LIVERING SVILA	F2206250
07174	0	07400	4.	07513	SYM160	ISX	IKAWKU 14	CAVE THOSE LAST DOTAG HANDI ED	F2304320
07175	-0	63400	1	06653		SXD	NEXIKZ 1	MATCHING SUBSCRIPT SYMBOL WITH RSYMI. STORE LEVEL OF DOTAG THIS DOTAG IS RI. IF DELTA IS ONE, THEN NO TRAWORD SKIP. SAVE INDEX LAST DOTAG HANDLED. ARE THERE TRANSFERS OUT(TRABITS). YES. LOAD I.R. FOR MATCHING DOTAG. A ONE TELLS PROCESS THAT CALLER WAS SYMONE. (B). NO TRANSFERS OUT (TRABITS) IF DELTA IS GREATER THAN ONE, THEN LOAD INDEX REG FOR MATCHING DOTAG, AND LEVEL AND GO TO SECOND LEVEL SEARCH. DELTA IS ONE, CONTINUE FIRST LEVEL SEARCH. DAMAKES A SECOND LEVEL SEARCH AMONG THOSE DOS THE DO MATCHING RSYMI. USES PROCESS ROUTINE AND ROUTINE SYM3 IF NECESSARY. INITIALIZE LEVEL TEST GET LEVEL OF NEW DOTAG AND TEST AGAINST LEVEL OF RI AND IF WITHIN RANGE OF RI, TEST MATCH DOTAG SYMBOL AGAINST RSYM2. MATCHES . GO TO TREAT R2. DOESNT MATCH RSYM2, TRY RSYM3. GET NEXT DOTAG (DEC CONTAINS DOTAG IX) IF END OF DOTAG, EXIT. DOTAG SYMBOL MATCHES RSYM3 - INTERCHANGE RSYM2 AND RSYM3. THIS DOTAG IS R2 SAVE ITS LEVEL . IF DELTA IS TWO OR ONE, THEN NO TRAWORD SKIP. SAVE INDEX LAST DOTAG HANDLED.	F 2 3 U 6 3 6 U

								100 00000 001000000 000 10010101	E244474
	07176 0	10000	0	07202		TZE	SYM170	ARE THERE TRANSFERS OUT (TRABITS).	F2306370
	07177 -0	53400	1	06651		LXD	XR2,1	YES. LOAD IX REG FOR MATCHING DOTAG.	F2306380
	07200 -0	53400	2	06667		LXD	L(2),2	A TWO TELLS PROCESS THAT	F2306390
	07201 0	07400	4	07236		TSX	PROCES • 4	ARE THERE TRANSFERS OUT (TRABITS). YES. LOAD IX REG FOR MATCHING DOTAG. A TWO TELLS PROCESS THAT CALLER WAS SYM2. (2). NO TRANSFERS OUT (TRABITS). IF DELTA IS 3. THEN LOAD INDEX REG FOR MATCHING DOTAG. AND LEVEL AND GO TO THRID LEVEL SEARCH. DELTA IS LESS THAN THREE. CONTINUE SECOND LEVEL SEARCH. MAKES A THIRD LEVEL SEARCH OF DOTAG AMONG THOSE	F2306400
	07202 -0	53400	4	06631	SYM170	LXD	DELTA • 4	NO TRANSFERS OUT (TRABITS).	F2306410
	07202 -3	00002	4	07207		TXL	SYM180.4.2	IF DELTA IS 3 . THEN	F2306420
	07205 -5	53400	7	01201		IXD	YR241	LOAD INDEX REG FOR MATCHING DOTAGA	F2306430
	07204 -0	53400	, T	06651		LXD	1 D2 4 2	AND LEVEL AND	F2306440
	07205 -0	99400	~	00002		TOA	CVM2	GO TO THOTO LEVEL CEADON.	F2306450
	07206	02000	0	0/211		IKA	51M5	DELTA ICA ECC THAN THEE	F2206460
	07207 -0	53400	1	06653	SYM180	LXD	NEXIR2 1	DELIA 15 LESS THAN THREE!	F2306460
	07210 0	02000	0	07160		TRA	SYM130	CONTINUE SECOND LEVEL SEARCH.	F2306470
							ROUTINE SYM3	MAKES A THIRD LEVEL SEARCH OF DOTAG AMONG THOS	EF2306480
,									
							NECESSARY AN	OBTAIN LEVEL OF CURRENT DOTAG AND IF IT IS OUTSIDE RANGE OF R2, EXIT, (DEC HAS LEVEL R2) OTHERWISE CHECK FOR IDENTIFY	F2306500
	07211 -0	63400	2	07215	SYM3	SXD	SYM200 • 2	INITIALIZE WITH LEVEL OF R2.	F2306510
	07212 0	02000	ō	07221		TRA	SYM210	•	F2306520
	07212 0	50000	7	06404	SYM190	CLA	DOTAG7+5+1	OBTAIN LEVEL	F2306530
	07215 0	73400	•	00707	0111270	DUX	0.2	OF CURRENT DOTAG AND IF IT IS	F2306540
_	07214 -0	73400	~	07160	CVM200	TVI	CVM120.2	OUTSIDE DANGE OF RAL EVITA IDEC HAS LEVEL ROLL	F2306550
D	0/215 -3	00000	2	01100	31PI200		DOTAG7+1-1	OTHERWICE CHECK FOR INFINITOR	F2306560
	07216	50000	1	06400		CLA	DOTAG2+191	WITH THERE FORTAG CAMPON	F2300500
	07217 0	40200	0	06634		SUB	RSYM3	WITH THIRD FORTAG STMBOLO	F2306370
	07220 0	10000	0	07224		TZE	SYM230	OTHERWISE CHECK FOR IDENTIRY WITH THIRD FORTAG SYMBOL. IF IDENTITY, GO TO ANALYZE . OTHERWISE,	F 2306580
	07221 1	77767	1	07222	SYM210	TXI	SYM220 91 9-9	GET NEXT DOTAG.	F2306590
D	07222 3	00000	1	07213	SYM220	TXH	SYM190:1	IF END OF DOTAG. (DEC HAS DOTAG IX)	F2306600
	07223 0	02000	0	07160		TRA	SYM130	EXIT FROM THIRD LEVEL SEARCH	F2306610
	07224 -0	63400	1	06654	SYM230	SXD	XR3•1	IF IDENTITY, GO TO ANALYZE . OTHERWISE, GET NEXT DOTAG. IF END OF DOTAG, (DEC HAS DOTAG IX) EXIT FROM THIRD LEVEL SEARCH SAVE IX OF MATCHING DO NO TRAWORD SKIP. GO TO HUNT TRANSFERS-OUT. IF NO TRNSFRS OUT (TRABITS) RETURN TO SRCH TRNSFRS OUT. SAVE IX LAST DO HANDLED IN TRAWORD THREE TELLS PROCESS THAT CALLER WAS SYM3. GET IX NEXT DOTAG AND CONTINUE THIRD LEVEL SEARCH. SS DETERMINES WHETHER OR NOT THERE EXISTS A TO THE CURRENT RELCON TAG AND WHETHER ITS BEEN CHANGED. THE SEARCH FOR THIS IDENTICAL TAG APPROPRIATE RANGES OF THAT DO WHOSE SYMBOL HAS MATCH ONE OF THE RELCON SYMBOLS. TRASTO ENTRIES	F2306620
	07225 -0	53400	2	06666		LXD	L(1) +2	NO TRAWORD SKIP.	F2306630
	07226 0	07400	4	07513		TSX	TRAWRD • 4	GO TO HUNT TRANSFERS-OUT.	F2306640
	07227 0	10000	n	07222		TZE	SYM220	IF NO TRNSFRS OUT (TRABITS) RETURN TO SRCH	F2306650
	07220 -0	63400	. 1	06655		SXD	NEXTR3.1	TRNSFRS OUT. SAVE IX LAST DO HANDLED IN TRAWORD	F2306660
	07231 -0	52400	•	06654		IXD	YP3+1	,	F2306670
,	07231 -0	53400	2	06670		IXD	1 (3) • 2	THREE TELLS PROCESS THAT CALLER WAS SYM3.	F2306680
	07232 -0	07400	4	07724		TSY	DPOCES.4		F2306690
	01233 0	57400	*	01230		120	NEVIDA-1	GET IN MENT DOTAG AND	F2306700
	07234 -0	53400	Ţ	06655		TOA	MEVILENT	CONTINUE THIRD LEVEL CEARCH.	F2306710
	07235	02000	Ü	01222		IKA	DOUTING BROCE	CONTINUE THE ELVEL SERVEN	F2204720
							ROUTINE PROCES	TO THE CHOPENT DELCON TAC AND MUSTUED THE	F2306720
							TAG IDENTICAL	TO THE CURRENT RELCON THE AND WHETHER TIS	F2306730
							TAG NAME HAS I	SEEN CHANGED. THE SEARCH FOR THIS IDENTICAL TAG	F 2306 / 40
							IS MADE THRU A	APPROPRIATE RANGES OF THAT DO WHOSE SYMBOL HAS	F2306750
							BEEN FOUND TO	MATCH ONE OF THE RELCON SYMBOLS. TRASTO ENTRIES	F2306760
							ARE ENTERED DE	PENDING UPON WHICH OF THOSE CONDITIONS HOLDS.	F2306770
	07236 -0	63400	1	07262	PROCES	SXD	DOX+1	SAVE DOTAG IX	F2306780
	07237 -0	63400	4	07265		SXD	SYMLNK • 4	AND CALLER	F2306790
	07240 -0	63400	2	07243		SXD	PR10+2	AND INITIALIZE WITH B.	F2306800
	07241 -0	53400	2	06631		LXD	DELTA 2		F2306810
	07242 -0	53400	4	06665		LXD	L(0)+4		F2306820
	07242 3	00000	2	07245	DR10	TXH	PR 20 • 2	DOES DELTA EXCEED B. (DEC HAS B)	F2306830
D	01242 2	53400	1.	04666		IXD	1 (1) • 4	IF NOT. THEN NO SKIP. OTHERWISE.	F2306840
	01244 -0	22400	4	00000	0020	CAD	CYIDAA	SYIP IF CISKIPI=0.	F2306850
	07245 -0	63400	4	06656	PKZU	370	TACIND . A	TOA TE COECTAL CACEA T.F.A MOCT CIMPLE.	£2306050
	07246 -0	53400	4	06630		LXU	PROPERTY A	ITACIAN NOT ZERO)	E3204070
	07247 3	00000	4	07317		IXH	PKSPEC 9490	SAVE DOTAG IX AND CALLER AND INITIALIZE WITH B. DOES DELTA EXCEED B. (DEC HAS B) IF NOT: THEN NO SKIP. OTHERWISE. SKIP IF C(SKIP)=0. TRA IF SPECIAL CASE. I.E., MOST SIMPLE. (TAGIND NOT ZERO) SEARCH TABLE NAME GET RSYM1 DOTAG ALPHA IN DEC AND FORTAG IN ADDRESS.	F220001U
	07250 0	50000	1	06377		CLA	DUTAGZ • 1	SEARCH TABLE NAME	F2306880
	07251 -0	32000	0	06704		ANA	DECMSK	GET KSTMI DOTAG ALPHA IN DEC	F2306890
	07252 0	40000	0	06626		ADD	TAG	AND FORTAG IN ADDRESS.	F 2306900

	07253	-0	53400	1	06711	GETNAM	LXD	NAMAX•1 GETN20	LOAD MAX NO NAME TABLE WORDS	F2306910 F2306920
	01254	v	24000	1	00722	GETN05	CAS	NAM7 A1	DOES THE DOTAG ALPHA AND FORTAG INDEX OF THE	
	07257	v	02000	Ţ.	00133	GETNOS	TDA	GETNIO	FIRST WORD OF NAME TABLE MATCH THOSE ABOVE.	
	07257	0	02000	0	07263		TRA	GETN10 GETN30	YES.	F2306950
	07260	1	77775	1	07261	GETN10	TXI	GETN20,1,-3	NO. GET NEXT NAME TABLE.	F2306960
D	07261	2	00000	î	07255	GETN20	TXH	GETN05 • 1		
Ď	07262	-3	00000	ô	07266	DOX	TXL	PR25.0	YES, NOT NOT FOUND. (DEC HAS IX MATCHING DOTAG	F2306980
•	07263	õ	50000	ĭ	00734	GETN30	CLA	NAMZ+1+1	FOUND. OBTAIN NEW TAG NAME	F2306990
	07264	ō	60100	ō	06627		STO	TS	AND SAVE IT.	F2307000
D	07265	-3	00000	0	07313	SYMLNK	TXL	PR80 • 0		F2307010
	07266	-0	53400	4	06656	PR25	LXD	SKIP:4	IS NAME TABLE EXHAUSTED (DEC HAS NAME IX) YES, NOT NOT FOUND. (DEC HAS IX MATCHING DOTAGE FOUND. OBTAIN NEW TAG NAME AND SAVE IT. NOT FOUND IN NAME TABLE, SEARCH FORTAG IN PROPER RANGE. INDICATE TINFOR SEARCH REQUIRED NOT FOUND T FOUND T FOUND FOUND, GO TO EXIT. T NOT FOUND, MAKE TYPE 6 TRASTO ENTRY TABLE IRV GET IX FOR ENTRY IN TABLE IRV. IRV FULL. ERROR. GO TO DIAGNOSTIC.	F2307020
	07267	-0	53400	1	07262		LXD	DOX+1	SEARCH FORTAG	F2307030
	07270	3	00000	4	07275		TXH	PR30+4+0	IN PROPER RANGE.	F2307040
	07271	-0	53400	2	06666		LXD	L(1),2	INDICATE TINFOR SEARCH REQUIRED	F2307050
	07272	0	07400	4	07401		TSX	SPC000 • 4		F2307060
	07273	0	02000	0	07277		TRA	PR40	NOT FOUND	F2307070
	07274	0	02000	0	07315		TRA	PR90	T FOUND	F2307080
	07275	0	07400	4	07564	PR30	TSX	TINFOR • 4		F2307090
	07276	0	02000	0	07315		TRA	PR90	FOUND, GO TO EXIT.	F2307100
	07277	-0	53400	2	06665	PR40	LXD	L(0) +2	T NOT FOUND, MAKE TYPE 6	F2307110
	07300	0	07400	4	07336		TSX	TRAENT +4	TABLE TOW	F2307120
		_		_		2212		MAKE ENIRY IN	CET IN FOR CATEN IN TARIE IRV.	F2307150
	07301	-0	53400	1	06664	PK60	LXD	IRVXX91	GET IX FOR ENTRY IN TABLE TRYS	F2307150
	07302	3	00000	I	07304		TCV	DIAGA TABLE	TRY FULL FREDRA GO TO DIAGNOSTIC.	F2307155
	07303	0	07400	4	00004	0070	CLA	TAG	IRV FULL. ERROR. GO TO DIAGNOSTIC. PLACE TAG IN DECREMENT AND ADDRESS AND STORE ENTRY IN TABLE IRV BUMP IRV TABLE INDEX AND SAVE IT FOR NEXT ENTRY. MAKE TYPE ONE TRASTO ENTRY RESTORE INDEX REG AND RETURN TO CALLER FC IS FOR THE SPECIAL CASE OF A SINGLE SUBSCRIPT	F2307170
	07304	0	50000	0	00020	PRIU	ALC	10	DECDEMENT AND	F2307180
			76700				WE2	TAG	ADDRESS AND	F2307190
			40000 60100				STO	1PV7 - 1	STORE ENTRY IN TABLE IRV	F2307200
			77777				TYI	DR75 • 1 • = 1	BUMP IRV TABLE INDEX AND	F2307210
			63400			DD 75	SXD	TRVXX.1	SAVE IT FOR NEXT ENTRY	F2307220
			02000			FRID	TRA	PR90		F2307230
						PR80	LXD	L(1)•2	MAKE TYPE ONE TRASTO ENTRY	F2307240
	07314	Õ	07400	4	07336		TSX	TRAENT • 4		F2307250
	07315	-0	53400	4	07265	PR90	LXD	SYMLNK +4	RESTORE INDEX REG	F2307260
			02000				TRA	1.4	AND RETURN TO CALLER	F2307270
	0,310	•	02000	•				ROUTINE PERSPE	EC IS FOR THE SPECIAL CASE OF A SINGLE SUBSCRIPT	F2307280
								RELCON WITH NO	COEFFICIENT (TAGIND EQUALS ONE)	F2307290
	07317	0	50000	1	06407	PRSPEC	CLA	DOTAGZ+8+1	IF DOTAGS	F2307300
	07320	0	77100	0	00022		ARS	18	TEST NAME	F2307310
	07321	0	40200	0	06626		SUB	TAG	IS SAME AS	F2307320
	07322	-0	10000	0	07331		TNZ	PR100	CURRENT FORTAG	F2307330
			50000				CLA	BIT18	AND IF	F2307340
			32000				ANA	DOTAGZ+6,1	THERE IS A	F2307350
	07325	0	10000	0	07315		TZE	PR90	EC IS FOR THE SPECIAL CASE OF A SINGLE SUBSCRIPT COEFFICIENT (TAGIND EQUALS ONE) IF DOTAGS TEST NAME IS SAME AS CURRENT FORTAG AND IF THERE IS A MAKE A TYPE 5 TRASTO ENTRY LOOK FOR ALREADY PROCESSED IDENT FORTAG. FOUND. NOT FOUND. MAKE A TYPE 1 TRASTO	F2307360
	07326	-0	53400	2	06670		LXD	L(3) ,2	MAKE A TYPE 5 TRASTO ENTRY	F230/3/0
	07327	0	07400	4	07336		TSX	TRAENT 94		F2307380
	07330	0	02000	0	07315	00100	TRA	PK90	LOOK FOR ALREADY PROCESSED IDENT FORTAG	F2207400
	07331	0	07400	4	07564	PK100	ISX	TINFOR,4	ENUN FOR ALKEAUT PROCESSED IDENT FORTAGE	F23074UU
			02000				IKA	PK90	NOT FOUND. MAYE A TYDE 1 TOACTO	F2307430
			53400				-//	L(2),2	NOT FOUND, MAKE A TYPE 1 TRASTO ENTRY	F2307420
	07334	0	07400	4	0/336			TRAENT +4	CHIKI	F2207450
	07335	0	02000	0	07315		IKA	PR90		F2307440

	MAKE A TRASTO ENTRY. TRASTO TYPE ONE ENTRY IS MADE WHEN B IS ONE OR TWO. TYPE FIVE ENTRY WHEN B IS THREE, AND TYPE SIX TRASTO ENTRY WHEN B IS ZERO. 1270.4 DOX.1 DOTAGZ.1 GET DOTAGS ALPHA AND BETA TE10.2:2 WHERE B IS 3 (TYPE) SET E1 NEG. E1 AND STORE IN E1. TL2 GET LEVEL OF DOTAG 18 INTO ADDRESS AND TE20.2:0 WHERE B ZERO (TYPE 6), SET NEG AND E2 PUT IT INTO E2. TE40.2:1 DOTAGZ.48,1 PREPARE DOTAGS DECMSK TEST NAME. TE30.2:2 IF B 2 (TYPE 1) TAG PREPARE FORTAG INDEX AND TE60 GO TO STORE IN E3. DOTAGZ.4:1 THE B IS 3, (TYPE 5) PREPARE DOTAGS TE50 PARAMETER N1. DOTAGZ.4:1 THE B IS 3, (TYPE 5) PREPARE DOTAGS TE50 PARAMETER N1. AND WHERE B ZERO OR 1 (TYPE 1), GET FORTAG WHERE B ZERO OR 1 (TYPE 1), GET FORTAG WHERE B ZERO OR 3 (TYPE 60R5) AND WHEN ONE, 18 PUT IN DEC WITH TS NEW TAG NAME IN ADDRESS. E3 AND STORE IN E3, FINALLY. E4 TRASTO GET TRASTO KEY WORD. L(2).2: KIP.4 L(2).2 KIP.4 TE50.4 F SKIP IS 1 (DELTA GREATER THEN B), SPC000.4 F SVEOUCH. GO TO STORE CHEVEL OF DOTAG TO SEARCH NOT REQUIRED KIP.4 TE60.4 CDEC SAVES TSXLINK) GO TO SPC. GO TO SPC. GO TO SPC. GO TO STORE SAVE IIST KEY WORD DOTAGZ.1: OBTAIN ALPHABETA WRD, SAVE BETA, DECMSK OBTAIN ALPHABETA WRD, O.2 SAVE BETA, DECMSK OBTAIN ALPHABETA WRD, O.2 SAVE BETA, DECMSK OBTAIN ALPHABETA WRD, O.2 SAVE BETA, DECMSK OBTAIN ALPHABETA WRD, SAVE BETA, DEGMSK OBTAIN ALPHABETA WRD, SAVE BETA, DOWN ONE DO, IF POSSIBLE, ELSE	F2307450 F2307460
	SIX TRASTO ENTRY WHEN B IS ZERO.	F2307470
07336 -0 63400 4 07375 TRAENT SXD	TE70•4	F2307480
07337 -0 53400 1 07262 LXD	DOX+1	F2307490
07340 0 50000 1 06377 CLA	DOTAGZ 1 GET DOTAGS ALPHA AND BETA	F2307500
07341 -3 00002 2 07343 TXL	TE10,2,2 WHERE B IS 3 (TYPE5)	F2307510
07342 -0 76000 0 00003 SSM	SET E1 NEG.	F2307520
07343 0 60100 0 07656 TE10 STO	E1 AND STORE IN E1.	F2307530
07344 0 50000 0 06645 CLA	TL2 GET LEVEL OF DOTAG	F2307540
07345 0 77100 0 00022 ARS	18 INTO ADDRESS AND	F2307550
07346 3 00000 2 07350 TXH	TE20,2,0 WHERE B ZERO (TYPE 6),	F2307560
07347 -0 76000 0 00003 SSM	SET NEG AND	F2307570
07350 0 60100 0 07657 TE20 STO	E2 PUT IT INTO E2.	F2307580
07351 -3 00001 2 07361 TXL	TE40,2,1 WHERE B 20R3 (TYPE 1 OR 5),	F2307590
07352 0 50000 1 06407 CLA	DOTAGZ+8:1 PREPARE DOTAGS	F2307600
07353 -0 32000 0 06704 ANA	DECMSK TEST NAME .	F2307610
07354 3 00002 2 07357 TXH	TE30,2,2 IF B 2 (TYPE 1)	F2307620
07355 -0 50100 0 06626 ORA	TAG PREPARE FORTAG INDEX AND	F2307630
07356 0 02000 0 07367 TRA	TE60 GO TO STORE IN E3.	F2307640
07357 -0 50100 1 06401 TE30 ORA	DOTAGZ+2+1 WHERE B IS 3+ (TYPE 5) PREPARE DOTAGS	F2307650
07360 0 02000 0 07366 TRA	TE50 PARAMETER N1.	F2307660
07361 0 50000 0 06626 TE40 CLA	TAG WHERE B ZERO OR 1 (TYPE 1), GET FORTAG	F2307670
07362 -3 00000 2 07366 TXL	TE50,2,0 AND WHEN ONE,	F2307680
07363 0 76700 0 00022 ALS	18 PUT IN DEC WITH	F2307690
07364 0 40000 0 06627 ADD	TS NEW TAG NAME IN ADDRESS.	F2307700
07365 0 02000 0 07367 TRA	TE60	F2307710
07366 -0 76000 0 00003 TE50 SSM	SET MINUS FOR B ZERO OR 3 (TYPE 60R5)	F2307720
07367 0 60100 0 07660 TE60 STO	E3 AND STORE IN E3, FINALLY.	F2307730
07370 -0 50000 0 07663 CAL	TRASTO GET TRASTO KEY WORD.	F2307740
07371 -0 53400 2 06667 LXD	L(2),2 INDICATE TINFOR SEARCH NOT REQUIRED	F2307750
07372 -0 53400 4 06656 LXD	SKIP•4	F2307760
07373 3 00000 4 07376 TXH	TE80,4,0 IF SKIP IS 1 (DELTA GREATER THEN B);	F2307770
07374 0 07400 4 07401 TSX	SPC000+4 GO TO SPC.	F2307780
07375 -3 00000 0 07377 TE70 TXL	TE90.0 (DEC SAVES TSXLINK)	F2307790
07376 0 07400 4 07620 TE80 TSX	LIST,4 GO TO LIST KF SKIP IS ZERO.	F2307800
07377 -0 53400 4 07375 TE90 LXD	TE70,4 RETURN FROM LIST.	F2307810
07400 0 02000 4 00001 TRA	1,4 RETURN TO CALLER.	F2307820
	SUBROUTINE SPC000	F2307830
07401 -0 63400 1 07473 SPC000 SXD	SPC115.1 SAVE INDEX OF DO TO BE SEARCHED.	F2307840
07402 -0 63400 2 07446 SXD	SPC060,2 SAVE TINFOR, LIST INDICATOR	F2307850
07403 -0 63400 4 07463 SXD	SPC105,4 SAVE TSX INDEX.	F2307860
07404 0 60100 0 07512 STO	SPCKEY SAVE LIST KEY WORD	F2307870
07405 0 50000 1 06404 CLA	DOTAGZ+5,1 OBTAIN L WORD	F2307880
07406 0 62200 0 07423 STD	SPC050 INITIALIZE TEST INSTR.	F2307890
07407 0 50000 1 06377 CLA	DOTAGZ +1 OBTAIN ALPHABETA WRD +	F2307900
07410 0 73400 2 00000 PAX	0.2 SAVE BETA,	F2307910
07411 -0 32000 0 06704 ANA	DECMSK OBTAIN ALPHA ALONE	F2307920
07412 0 60100 0 06660 STO	NEXTA STO IN NEXTA	F2307930
07413 0 60100 0 06662 STO	A AND STORE IN A.	F2307940
07414 -0 75400 2 00000 PXD	0.2 PUT BETA IN LASTB AND	F2307950
07415 0 60100 0 06661 STO	LASTB BEGIN SEARCH FOR R2	F2307960
07416 -0 53400 1 07473 SPC010 LXD	SPC115,1 OBTAIN CURRENT INDEX AND	F2307970
07417 1 77767 1 07420 SPC020 TXI	SPC040,1,-9 GO DOWN ONE DO, IF POSSIBLE, ELSE	F2307980
<u>.</u>		

Đ	07420 -3	00000	1 07464	SPC040	TXL	SPC110.1	GO TO SET UP LAST INTERVAL. (DEC HAS DOTAG IX TEST WHETHER OR NOT THIS DO IS IN RANGE OF R1(DXL) IF NOT, EXIT FOR LAST INTRVL. (DEC LEV DO) IF IN R1, IS THIS DO TO BE SKIPPED. IF NOT, GO BACK TO GET NEXT DO. R2 FOUND, ARRANGE TO SKIP THIS INTERVAL. USE ALPHA OF R2 AS B, PUT BETA OF R2 IN NEXTA. DO FORMULAS WITHIN R2 ARE ACCOUNTED FOR AFTER SEARCH. SAVE INDEX OF R2. PUT TINFOR, LIST IND. IN XRB FOR NON EMPTY INTERVALS, GO TO ARRANGE TINFOR SEARCH, OR TRA TO USE LIST. (DEC HAS TINFOR SEARCH INDIC) RETURN HERE. TEST TINFOR	F2307990
	07421 0	50000	1 06404		CLA	DOTAGZ+5 +1	TEST WHETHER OR NOT THIS DO	F2308000
	07422 -0	73400	2 00000		PDX	0+2	IS IN KANGE OF KI(DAL)	F2308010
D	07423 -3	00000	2 07464	SPC050	TXL	SPC110+2	IF NOIS EXIL FOR LAST INTRALS (DEC LEV DO)	F2308020
	07424 0	50000	1 06400		CLA	D01AGZ+191	ENIBORD IE NOT- GO PACK TO	F2308030
	97425 0	40200	0 06634		SOB	RSYM3	SKIPPEDO IF NOIS GO BACK IO	F2308040
	07426 0	10000	0 07432		IZE	5PC053	GET NEXT DO	F2308050
	07427 0	50000	1 06400		CLA	DCVM2		F2308070
	07430 0	40200	0 00033		TN 7	SDC020		F2308080
	07431 -0	10000	1 06277	SPC052	CLA	DOTAGZ A 1	R2 FOUND ARRANGE TO SKIP THIS	F2308090
	07432 0	72400	2 00000	3. 6023	PAX	0.2	INTERVAL USE ALPHA OF R2	F2308100
	07433 -0	22000	0 06704		ANA	DECMSK	AS B. PUT BETA OF R2 IN	F2308110
	07434 -0	60100	0 06663		STO	В	NEXTA.	F2308120
	07436 -0	75400	2 00000		PXD	0.2	DO FORMULAS WITHIN R2 ARE	F2308130
	07437 0	60100	0 06660		STO	NEXTA	ACCOUNTED FOR AFTER SEARCH.	F2308140
	07440 -0	63400	1 07473		SXD	SPC115+1	SAVE INDEX OF R2.	F2308150
	07441 -0	53400	2 07446	SPC055	LXD	SPC060,2	PUT TINFOR, LIST IND. IN XRB	F2308160
	07442 0	50000	0 06662	SPC058	CLA	Α	FOR	F2308170
	07443 0	40200	0 06663		SUB	В	NON EMPTY	F2308180
	07444 0	10000	0 07447		TZE	SPC065	INTERVALS.	F2308190
	07445 -3	00001	2 07500		TXL	SPCTIN:2:1	GO TO ARRANGE TINFOR SEARCH, OR	F2308200
D	07446 -3	00000	0 07503	SPC060	TXL	SPCSTO:0	TRA TO USE LIST. (DEC HAS TINFOR SEARCH INDIC)	F2308210
	0 / 44 / TU	22400	2 01440	3. 6007	レハレ	31 600072	RETURN HERE, TEST TINFOR LIST IND. IF ZERO, EXIT. TO SET UP NEXT INTERVAL, OBTAIN INDEX OF LAST R2 AND STEP DOWN IN DOTAG BY USUAL PROCEDURE UNTIL SOME DO IS	F2308220
	07450 -3	00000	2 07474		TXL	SPC120,2,0	LIST IND. IF ZERUS EXITO	F2308230
	07451 -0	53400	1 07473	SPCO70	LXD	SPC115 +1	OPTAIN INDEX OF LACT DO AND	F2308240
	07452 0	50000	1 06404		CLA	DOTAGZ+5+1 SPC100	STED DOWN IN DOTAG BY HISHAI	F2308250
	07453 0	62200	0 07460	606000	510	SPC100	PROCEDURE UNITE SOME DO IS	F2308200
	07454 1	77767	1 07455	SPCORO	IXI	SPC090:1:-9	FOUND NOT IN R2. OR UNTIL (DEC HAS DOTAG TX)	F2308210
D	07455 -3	50000	1 0/404	370090	CIA	SPC110+1	DOTAG EXHAUSTED. IF DO FOUND	F2308290
	07455 -0	73400	2 00000		PDX	DOTAGZ+5,1	DOTAG EXHAUSTED. IF DO FOUND NOT IN R2, SET A AND GO TO TEST	F2308300
	07457 -0	00000	2 07454	SPC100	TXH	SPC080,2	IF THIS DO IS IN R1. (DEC HAS LEV LAST R2 DO)	F2308310
D	07461 0	50000	0 06660	0. 4100	CLA	NEXTA	IF IT IS, NEWR2 WILL BE FOUND	F2308320
	07462 0	60100	0 06662		STO	A	OR EXIT MADE TO SPC110.	F2308330
D	07463 -3	00000	0 07423	SPC105	TXL	SPC050+0		F2308340
U	07464 0	50000	0 06660	SPC110	CLA	NEXTA	THIS IS SETUP FOR LAST	F2308350
	07465 0	60100	0 06662		STO	A	INTERVAL. FOR A, USE	F2308360
	07466 0	50000	0 06661		CLA	LASTB	CONTENTS OF NEXTA. FOR B.	F2308370
	07467 0	60100	0 06663		STO	В	USE BETA OF R1; FOUND IN	F2308380
	07470 -0	53400	2 07446		LXD	SPC060+2	LASTB. OBTAIN TINFOR, STOTAG	F2308390
	07471 0	50000	0 06665		CLA	L(0)	IND, AND SET LOCATION OF	F2308400
	07472 0	62200	0 07446		STD	SPC060	INDICATOR TO ZERO. GO TO	F2308410
Ð	07473 -3	00000	0 07442	SPC115	1XF	SPC058+0	FINFOR OR TRASTO (DEC HAS DUTAG IX)	F2308420
	07474 -0	53400	4 07463	SPC120	LXD	SPC105:44	CEARCH MADE. T NOT FOUND.	F2308430
	07475 0	02000	4 00001	606120	IKA	194	EXITAT FOUND	F2308440
	07476 -0	53400	4 07463	SPC130	TDA	32(102)4	IN SOME INTERVAL	F2308450
	07477 0	02000	4 00002	COCTIN	TCY	TINEXY	GO TO SEARCH FORTAG	F2308470
	0/500 0	07400	4 U/2/2	SPCTIN	TDA	SPC130	IF THIS DO IS IN R1. (DEC HAS LEV LAST R2 DO) IF IT IS, NEWR2 WILL BE FOUND OR EXIT MADE TO SPC110. THIS IS SETUP FOR LAST INTERVAL. FOR A, USE CONTENTS OF NEXTA. FOR B, USE BETA OF R1, FOUND IN LASTB. OBTAIN TINFOR, STOTAG IND, AND SET LOCATION OF INDICATOR TO ZERO. GO TO TINFOR OR TRASTO. (DEC HAS DOTAG IX) EXIT, ALL STORES DONE, OR, SEARCH MADE, T NOT FOUND. EXIT, T FOUND IN SOME INTERVAL GO TO SEARCH FORTAG I FOUND T NOT FOUND FOR TRASTO, E2 AND E3 ARE ALREADY SET UP. COLLECT A AND B INTO E1 WORD,	F2308480
	07501 0	02000	0 0741 0 0 07447		TRA	SPC065	T NOT FOUND	F2308490
	07502 0	50000	0 06662	SPCSTO	CLA	B.	FOR TRASTO E2 AND E3 ARE	F2308500
	07504 0	77100	0 00003	5, 6510	ARS	18	ALREADY SET UP. COLLECT	F2308510
	07505 0	40000	0 00022		ADD	Ā	A AND B INTO E1 WORD,	F2308520
	01909 0	40000	. 00002		7100	••		

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	07506	0	60100	0	07656		STO	E1	PUT TRASTO INDICATOR IN ACC. AND TSX TO LISTING ROUTINE. ON RETURN, GO TO TEST FINISH. STORAGE FOR TABLEKEY TRAWRD INITIALIZE. LEVEL OF DOTAG OBTAIN T2 WORD. OR INTO TRABIT TAKE NEXT DO IF NONE, EXIT (DEC HAS DOTAG IX) ODTAIN L WORD PUT L IN XRC. EXIT IF DO IS NOT INRANGE R1 (DEC HAS LEV DO) IF COMPLETE TEST, GO BACK (NO TRAWORD SKIP) IF INCOMPLETE TEST, IS THIS A DO TO BE SKIPPED IF SO, GO TO TRAW38 TEST RSYM3 IF NO SKIP GO BACK. THIS DO IS TO BE SKIPPED. PUT LEVEL OF THIS DO IN TEST INSTR. TAKE NEXT DO IF ANY IF NOT, EXIT. OTHERWISE, (DEC HAS DO IX) ODTAIN L WORD PUT L IN XRC IF DO IS IN RANGE OF R2, GO BACK. OTHERWISE, GO TO TRAW30 OBTAIN 36 IN DECREMENT 36-TL2 (LEVEL OF DOTAG) IN ADDRESS INITIALIZE SHIFT ACC CONTAINS ZERO MO CONTAINS ALL ONES PUT TL2 ONES IN ACC (LLEV. DOTAG) POSITION ONES IN ACC AND IN TRANSFER BITS GO BACK TO CALLING INSTR PLUS ONE. TINFOR AND TINFXX C(XRA)=INDEX OF DO TO BE SEARCHED. SEPARATE ALPHA AND BETA AND STORE IN A	F2308530
	07507	0	50000	0	07512		CLA	SPCKEY	ACC. AND	F2308540
	07510	0	07400	4	07620		ISX	L15194	15X TO LISTING ROUTINE.	F2308550
	07511	0	02000	0	07447	CDCKEK	IKA	SPC009	ON RETURNS GO TO TEST FINISMS	F2308560
A	07512	0	00000	0	00000	SPEKET	HIK	CURROUTINE	TRAUDO	F2308570
					07545	TOAUDO	cvn	TO ANGE . 4	IRANKU	F2308580
	07513	-0	63400	4	0/245	IRAWRD	SAU	1KAW0294		F2308590
	07914	ŏ	50000	ŏ	06665		STO	TDARIT	INITIALIZE.	F2308600
	0/252	ŏ	90100	٥	06691		CIA	1 NADI 1	I EVEL OF COTAG	L % 30 8 0 1 0
	07517	V	62200	7	07524		SID	TDAWAN	LEVEL OF DOTAG	F2308620
	07520	~0	50000	7	01320	TPAWIO	CAL	DOTAG7+7+1	ORTAIN TO WORD.	E2300650
	07520	-0	60200	ā	06657	111/11/20	ORS	TRARIT	OR INTO TRABIT	F2308640
	07521	1	77767	ĭ	07523		TXI	TRAW20 • 1 • - 9	TAKE NEXT DO	F2308650
D	07522	-3	00000	î	07546	TRAW20	TXL	TRAW70 • 1	IF NONE • EXIT (DEC HAS DOTAG IX)	F2308670
	07524	ó	50000	ī	06404	111711120	CLA	DOTAGZ+5 • 1	ODTAIN L WORD	F2308680
	07525	-0	73400	ā	00000		PDX	0.4	PUT L IN XRC.	F2308690
D ·	07526	-3	00000	4	07546	TRAW30	TXL	TRAW70.4	EXIT IF DO IS NOT INRANGE R1 (DEC HAS LEV DO)	F2308700
	07527	-3	00001	2	07520		TXL	TRAW10,2,1	IF COMPLETE TEST, GO BACK (NO TRAWORD SKIP)	F2308710
	07530	ō	50000	. ī	06400	TRAW35	CLA	DOTAGZ+1:1	IF INCOMPLETE TEST. IS THIS A	F2308720
	07531	0	40200	0	06633		SUB	RSYM2	DO TO BE SKIPPED	F2308730
	07532	0	10000	0	07536		TZE	TRAW38	IF SO, GO TO TRAW38	F2308740
	07533	0	50000	1	06400		CLA	DOTAGZ+1+1	TEST RSYM3	F2308750
	07534	0	40200	0	06634		SUB	RSYM3	IF NO SKIP	F2308760
	07535	-0	10000	0	07520		TNZ	TRAW10	GO BACK.	F2308770
	07536	0	50000	. 1	06404	TRAW38	CLA	DOTAGZ+5 .1	THIS DO IS TO BE SKIPPED.	F2308780
	07537	0	62200	0	07544		STD	TRAW60	PUT LEVEL OF THIS DO IN TEST INSTR.	F2308 7 90
	07540	1	77767	1	07541	TRAW40	TXI	TRAW50+1+-9	TAKE NEXT DO IF ANY	F2308800
. D	07541	-3	00000	1	07546	TRAWSO	IXL	TRAW/0+1	IF NOT, EXIT. OTHERWISE, (DEC HAS DO IX)	F2308810
	07542	0	50000	1	06404		CLA	DOTAGZ+511	ODIAIN L WORD	F2308820
	07543	-0	73400	4	00000	TDANKO	PUX	U#4	TE DO IS IN DANCE OF DO SO DACK	F2308830
Đ	07544	3	00000	4	07540	TRAWOU	IXH	TRAWAU94	OTHERWISE GO TO TRANSA	F2308840
Ď	07545	-3	50000	Ú	0/526	TRAWOS	INF	TOAWAS.A	OTHERWISE, GO TO TRAWSO	F2308850
	07546	-0	53400	4	01242	IRAWIO	CLAD	1 (26)	ORTAIN 24 IN DECREMENT	F2308860
	01241	Ŏ	40300	٥	06612		SUR	TI 2	36-TI 2 (LEVEL OF DOTAG)	F2308810
	07551	ň	77100	0	00072		ARS	18	IN ADDRESS	F2300000
	07552	ă	62100	~	07561		STA	TRAWOO	INITIALIZE SHIFT	F2308000
	07552	õ	50000	٥	06645		CLA	T1 2	OBTAIN TI 2	F2308010
	07554	ñ	77100	ñ	00013		ARS	18	IN ADDRESS	F2308920
	07555	ŏ	62100	ŏ	07560		STA	TRAW80	INITIALIZE SHIFT	F2308930
	07556	ō	50000	ō	06665		CLA	L(0)	ACC CONTAINS ZERO	F2308940
	07557	ŏ	56000	Ŏ	06702		LDQ	350NES	MQ CONTAINS ALL ONES	F2308950
A	07560	ō	76300	0.	00000	TRAW80	LLS		PUT TL2 ONES IN ACC (LEV. DOTAG)	F2308960
Ä	07561	0	76700	0	00000	TRAW90	ALS		POSITION ONES IN ACC	F2308970
?	07562	-0	32000	0	06657		ANA	TRABIT	AND IN TRANSFER BITS	F2308980
	07563	0	02000	4	00001		TRA	1:4	GO BACK TO CALLING INSTR PLUS ONE.	F2308990
								SUBROUTINES	TINFOR AND TINFXX	F2309000
	07564	0	50000	1	06377	TINFOR	CLA	DOTAGZ • 1	C(XRA)=INDEX OF DO TO BE	F2309010
	07565	0	73400	1	00000		PAX	0.1	SEARCHED. SEPARATE ALPHA	F2309020
	07566	-0	32000	0	06704	٠.	ANA	DECMSK	AND BETA	F2309030
	07567	0	60100	0	06662		STO	A	AND STORE IN A	F2309040
	07570	-0	75400	1	00000		PXD	0+1		F2309050
	07571	0	60100	0	06663		STO	В	В	F2309060

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	07572	-0	53400	1	06674	TINFXX	LXD	L(1500:1	PUT MAX FORTAG INDEX IN XRA OBTAIN FORTAG ENTRY RETAIN FORMULA NUMBER ONLY COMPARE ALPHA AND FORMULA NR. FOR. NR. GREATER THAN ALPHA. TRA.	F2309070
	07573	. 0	50000	1	03670	TINFIO	CLA	FORTZ+1	DETAIN FORMULA NUMBER ONLY	F2309000
	07574							DECMSK	COMPADE ALDUA AND ECOMULA NO.	F2309190
			34000				CAS	A TIMEAO	EOD. NO. CREATED THAN ALBHA. TOA.	F2309100
			02000				NA	TINF40	C(A) MAY BE SOME BETA FROM SPC, HENCE, NO HALT	F2309110
	07577	0	76100	0	00000	-	NOP	TTNE20 . 11	EOD. NO. LESS THAN ALDHA. CO	F2309120
	07600	-1	77777	1	07601	IINFZU	1 X 1	TINF30+1+-1	7 THE THIRD CO. T.	F2309140
		_		_		******	TV11	TIME10.1	TE BOCCIOLE OTHERWICE, IDEC HAS EQUITED IN	E2200150
D						110130	TDA	TINF10+1	RETURN TO CALLING INSTR PLUS TWO. COMPARE FOR. NR. WITH BETA FOR. NR. GREATER THAN BETA, EXIT. FOR. NR. EQUAL TO OR LESS THAN BETA, OBTAIN FORTAG TAG AND COMPARE WITH SEARCH TAG. I.F. NOT EQUAL, GO BACK FOR NEXT TAG IF EQUAL, RETURN TO CALLING	F2309150
	07602	0	02000	4	00002	- TNE / A		2,4	COMPANE FOR MR. WITH DETA	F2309100
	07603	0	34000	0	06663	TINF40	CAS	B	COMPARE FOR MRS WITH DEIA	F2309170
			02000					2 • 4	FOR AIR FOUNT TO OR	F2309100
			76100				NOP		FOR THAN DETA - ORTAIN FORTAC	F2309190
			50000					FORTZ•1	TAG AND COMPADE WITH CEARCH TAG	F2309200
			12000					TINF20	TE NOT FOUND CO BACK FOR NEXT TAG	F2309210
			32000					ADDMSK	16F6 NOT EQUALS GO BACK FOR NEXT TAG	F2309220
	07611	0	40200	0	06626		SUB	TINESO	TE FOUNT - DETUDN TO CALLING	F2309230
	07612	-0	10000	0	07600			TINF20	INSTR PLUS ONE. XRA CONTAINS IX IN FORTAG OF	F2309240
	07613	0	02000	4	00001		IKA	1,94	FIRST TAG FOUND	F2309250
					~/ 7~1		ODG	3537	TIKST THE TOOKS	F2309270
					06721		OKO	MASTED DECI	ORD CARD = FNO43	F2309275
		_	E 0 / 0 0		00722	D1 3C	LYD	FORTAG-1,1	IF FORTAG IS EMPTY.	F2309280
	06721					BLJC		MDT1DV4141499	GO TO WRITE IRV	F2309290
	06/22	9	02733	1	07104			READ IN TSXCO	4	F2309300
	04722	-0	E2400	,	04471	RDTSX	LYD	L(6),4	INITIALIZE ERROR COUNTER	F2309312
	00123	-0	50000	7	07667	RTSX10		LADDS	COMPUTE NUMBER	F2309320
			40200			KISATO	SHR	TSXORG	OF TSXCOM ENTRIES	F2309330
			73400				-	0.1	FIRST TAG FOUND ORD CARD = FN043 IF FORTAG IS EMPTY, GO TO WRITE IRV INITIALIZE ERROR COUNTER COMPUTE NUMBER OF TSXCOM ENTRIES AND SAVE. IF EMPTY, GO TO EXIT. OTHERWISE, COMPUTE TERMINAL CORE ADDRESS	F2309340
	06727							TCOM-1+1	SAVE.	F2309350
٠			10000					RTSX60	IF EMPTY. GO TO EXIT.	F2309360
	06731	٥	40000	ň	06717			TCOMAD	OTHERWISE, COMPUTE TERMINAL CORE ADDRESS	F2309370
	06722	0	62100	۸	06735			RTSX20		F2309380
	06732	٥	76200	0	00133			195		F2309390
	06734	0	46000	ň	06716			TSXORG		F2309400
	06725	ň	70000	ĭ	00000	RTSX20		0 - 1	READ TSXCOM (ADD HAS TERM CORE ADD TSXCOM)	F2309410
	06735	2	00001	î	06735	N. ONZO	TIX	RTSX20+1+1	TABLES .	F2309420
	06737	-0	53400	1	00030			TCOM-1:1	COMPUTE	F2309430
	06760	-0	75400	î	00000			0.1	NUMBER OF	F2309440
	06741	-0	76000	â	00003		SSM		UNFILLED TSXCOM TABLE	F2309450
	06742	- 0	40000	ñ	06720		_	TCOMAX	SPACES:	F2309460
	06743	Ô	60100	Ô	00030			TCOM-1	SAVE,	F2309470
	06744	ດ	62200	ñ	06756		STD	RTSX30	AND INITIALIZE.	F2309480
	06745	-0	53400	ĭ	06720		LXD	TCOMAX + 1	COMPUTE	F 2309490
	06746	-0	50000	ī	01407	RTSX25	CAL	TCOMZ + 1	CHECK	F2309500
			36100				ACL	TCOMZ+1+1	TABLES • COMPUTE NUMBER OF UNFILLED TSXCOM TABLE SPACES, SAVE, AND INITIALIZE. COMPUTE CHECK SUM FOR EACH TABLE ENTRY AND COMPARE AGAINST GIVEN SUM. ERROR. IF COMPLETE. (DEC HAS UNUSED TSXCOM BUFFER)	F2309510
	06750	Õ	60200	ō	06760			RTSX40	AND COMPARE	F2309520
	06751	ō	50000	ō	06760		CLA	RTSX40	AGAINST	F2309530
	06752	ō	40200	ì	01411		SUB	TCOMZ+2+1	GIVEN SUM.	F2309540
	06753	ŏ	76100	ō	00000		NOP			F2309550
			10000				TNZ	RTSX50	ERROR. ◆	F2309560
	06755	1	77775	1	06756		TXI	RTSX30+1+-3		F2309570
D	06756	3	00000	1	06746	RTSX30	TXH	RTSX25+1		
	06757	0	02000	0	06766		TRA	SORT	GO TO SORT.	F2309590
		-		-						

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	06760	0	00000	0	00000	RTSX40	HTR		GO BACK TO REREAD	F2309600
	06761	2	00001	4	06724	RTSX50	TIX	RTSX10,4,1	GO BACK TO REREAD	F2309610
	06762	0	07400	4	00004		TSX	DIAG,4 READI	NG TSXCOM FROM DRUM3. ERROR. GO TO DIAGNOSTIC.	F2309625
	06763	0	50000	0	06720	RTSX60	CLA	TCOMAX	IF TSXCOM EMPTY PUT MAX NO	F2309630
	06764	0	60100	0	00030		STO	TCOM-1	NG TSXCOM FROM DRUM3. ERROR. GO TO DIAGNOSTIC. IF TSXCOM EMPTY PUT MAX NO TSXCOM ENTRIES IN KEY WORD AND EXIT. TURN OFF LIGHT INITIALIZE IS THERE ONLY ONE ENTRY IN TSXCOM. INITIALIZE OBTAIN FIRST WORD. FIRST ENTRY TSXCOM (ALPHA)	F2309640
	06765	0	02000	0	07053		TRA	IRVSRT	EXIT.	F2309650
								SORT TSXCOM		F2309660
	06766	-0	76000	0	00144	SORT	MSE	LIGHT	TURN OFF LIGHT	F2309670
	06767	0	76100	0	00000		NOP			F2309680
	06770	-0	53400	1	00030		LXD	TCOM-1+1	INITIALIZE	F2309690
	06771	1	00003	1	06772		IXT	SORT10,1,3	TO THESE ONLY ONE ENTEN IN TOYOU	F2309700
	06772	3	01353	1	07034	SORTIO	TXH	MAKIRV 91 9747	IS THERE ONLY ONE ENTRY IN ISACOM.	F2309/10
	06773	-0	63400	1	07025		SXD	SOR180 • 1	INITIALIZE	F2309720
	06774	-0	53400	1	06/20	SOR 120	CXD	TCOMAX 1	OPTAIN FIRST HORD. FIRST ENTRY TSYCOM (ALPHA)	F2309740
	06775	0	50000	1	01407	SURTSU	CLA	TCOMZ 1 1	COMPARE IT AGAINST SECOND ENTRY	F2309740
	06776	0	34000	1	01412		CAS	CODIEC	OUT OF ODDED . DEADDANGE TOTAL TSYCOM ENTRY.	F2309750
	06777	Ü	02000	Ö	07007		TDA	SORTAG	IN OPDER BY FIRST WORDS. GO CHECK 2ND WORDS.	F2309770
	07000	0	02000	ŏ	07002		TDA	SORT TO	ENTRIES IN ORDER A IGNOREA	F2309780
	07001	ŭ	50000	1	01624	SORTAN	CLA	TCOM7+1-1	ALRIGHT- FIRST WORDS IN ORDER BUT	F2309790
	07002	ŏ	34000	+	01410	301140	CAS	TCOM2+4+1	HOW DO THEIR 2ND WORDS COMPARE.	F2309800
	07003	0	02000	•	07013		TPA	SORTAG	IF OUT OF ORDER GO TO REARRANGE	F2309810
	07004	ŏ	02000	٥	07024		TRA	SORT70	IF FOUAL OR	F2309820
	07005	ň	02000	ň	07024		TRA	SORT70	IF IN ORDER. IGNORE.	F2309830
,	07000	ñ	50000	ĭ	01407	SORT50	CLA	TCOMZ • 1	FIRST ENTRY GREATER, OUT OF ORDER 1ST WORDS.	F2309840
	07010	ő	56000	ī	01412	•••••	LDQ	TCOMZ+3.1	INTERCHANGE THE FIRST WORDS	F2309850
	07011	ŏ	60100	ī	01412		STO	TCOMZ+3.1	OF THE	F2309860
	07012	-0	60000	ī	01407		STQ	TCOMZ + 1	INITIALIZE OBTAIN FIRST WORD; FIRST ENTRY TSXCOM (ALPHA) COMPARE IT AGAINST SECOND ENTRY OUT OF ORDER; REARRANGE TOTAL TSXCOM ENTRY. IN ORDER BY FIRST WORDS. GO CHECK 2ND WORDS. ENTRIES IN ORDER; IGNORE. ALRIGHT- FIRST WORDS IN ORDER BUT HOW DO THEIR 2ND WORDS COMPARE. IF OUT OF ORDER; GO TO REARRANGE. IF EQUAL OR IF IN ORDER; IGNORE. FIRST ENTRY GREATER; OUT OF ORDER 1ST WORDS. INTERCHANGE THE FIRST WORDS OF THE TWO ENTRIES. INTERCHANGE THE SECOND AND THIRD WORDS OF THE TWO ENTRIES. INDICATE OUT OF ORDER ENTRY HAS BEEN FOUND.	F2309870
	07013	0	50000	1	01410	SORT60	CLA	TCOMZ+1+1	INTERCHANGE	F2309880
	07014	0	56000	1	01413		LDQ	TCOMZ+4.1	THE	F2309890
	07015	0	60100	1	01413		STO	TCOMZ+4,1	SECOND	F2309900
	07016	-0	60000	1	01410		STQ	TCOMZ+1.1	AND	F2309910
	07017	0	50000	1	01411		CLA	TCOMZ+2,1	THIRD	F2309920
	07020	0	56000	1	01414		LDQ	TCOMZ+5•1	WORDS	F2309930
	07021	0	60100	1	01414		STO	TCOMZ+5,1	OF THE	F2309940
	07022	-0	60000	1	01411		STQ	TCOMZ+2•1	TWO ENTRIES.	F2309950
	07023	0	76000	0	00144		PSE	LIGHT	INDICATE OUT OF ORDER ENTRY HAS BEEN FOUND.	F2309960
	07024	1	77775	1	07025	SORT 70	TXI	SURT80 +1 +-3	BUMP FUR NEXT COMPARISONS	F2309910
	07025	3	00000	1	06775	SORTEO	IXH	SOR 130 9 1	15 PASS COMPLETE (DEC HAS UNUSED ISACOM BUFFTS	F2300000
	07026	-0	76000	0	00144		MSE	LIGHT	NO CO TO MAKIRY.	F2309990
	07027	0	02000	0	07034		IKA	CODTOO 1	VEC. NUMBER OF COMPARTSONS	F2310000
	07030	-0	53400	1	07025		LXD	SOR 180 9 1	MADE IS DECREASED BY ONE	F2310010
	07031	1	00003	Ţ	07032	CORTOO	IVI	SOR1707173	ON FACH DASS.	F2310030
	07032	-0	63400	1	0/025	30K 190	TDA	SORTOO FI	ON EACH PASSE	F2310040
	07033	U	02000	U	06114		IKA	BULL D HP TARES	F IRV FROM TSXCOM	F2310050
	07024	-0	53/.00	2	06664	MAKTRV	LXD	TRVXX+2	TWO ENTRIES. INTERCHANGE THE SECOND AND THIRD WORDS OF THE TWO ENTRIES. INDICATE OUT OF ORDER ENTRY HAS BEEN FOUND. BUMP FOR NEXT COMPARISON. IS PASS COMPLETE. (DEC HAS UNUSED TSXCOM BUFF+3 YES. WAS OUT OF ORDER ENTRY APPREHENDED. NO. GO TO MAKIRV. YES. NUMBER OF COMPARISONS MADE IS DECREASED BY ONE ON EACH PASS. E IRV FROM TSXCOM (IX VALUE FOR NEXT IRV ENTRY) GET SECOND WORD OF TSXCOM. PULL OUT PREFIX. IS ANYTHING THERE.	F2310060
	07026	-0	53400	1	00004	NUMBER	LXD	TCOM-1 • 1	ten times the court sit setting	F2310070
	07035	-0	63400	1	07051		SXD	MAK50 • 1		F2310080
	07037	-0	53400	ī	06720		LXD	TCOMAX • 1		F2310090
	07040	-0	50000	î	01410	MAK10	CAL	TCOMZ+1.1	GET SECOND WORD OF TSXCOM.	F2310100
	07041	-0	32000	ō	06705		ANA	PREMSK	PULL OUT PREFIX.	F2310110
	07042	-0	10000	Õ	07050		TNZ	MAK40	IS ANYTHING THERE.	F2310120
	07043	ō	50000	1	01410		CLA	TCOMZ+1,1		F2310130

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07044 3 00000 2 07046 TXH MAK20+2+0 F2310140 07045 0 07400 4 00004 TSX DIAG+4 TABLE IRV BUFFER FULL. ERROR. GO TO DIAGNOSTIC. F2310155
   07046 0 60100 2 06625 MAK20 STO IRVZ 2 STORE IRV.
                                                                                                                                                                                                                                F2310160
   07047 1 77777 2 07050
                                                                        TXI MAK40,2,-1
                                                                                                                                                                                                                                F2310170
  07050 1 77775 1 07051 MAK40 TXI MAK50+1+3
07051 3 00000 1 07040 MAK50 TXH MAK10+1
07052 -0 63400 2 06664 MAK60 SXD IRVXX+2

1S TSXCOM TABLE EXHAUST (DEC HAS UNUSED TSXCOM)F2310190
YES. SAVE INDICATION OF SIZE OF IRV. F2310200
                                                                                 SORT TABLE IRV.
                                                                                                                                                                                                                                F2310210
   07053 -0 53400 1 06664 IRVSRT LXD IRVXX+1
                                                                                                                                                                                                                               F2310220
   07054 1 00001 1 07055 TXI IRVS10+1+1
                                                                                                                                                                                                                          F2310230
  07055 3 00225 1 07120 IRVS10 TXH WRTTSX+1+149 IS THERE BUT ONE ENTRY IN IRV-
                                                                                                                                                                                                                                F2310240
  07056 -0 63400 1 07067 SXD IRVS50+1
                                                                                                                                                                                                                                F2310250
                                                                       MSE LIGHT TURN OFF LITE.
  07057 -0 76000 0 00144 MSE LIGHT NOP
                                                                                                                                                                                                                                F2310260
                                                                                                                                                                                                                               F2310270
 07060 0 76100 0 00000 NOP
07061 -0 53400 1 06714 IRVS20 LXD IRVMAX+1 INITIALIZE F2310280
07062 0 50000 1 06625 IRVS30 CLA IRVZ+1 GET FIRST IRV ENTRY AND F2310290
07063 0 34000 1 06626 CAS IRVZ+1+1 COMPARE AGAINST ITS NEIGHBOR. F2310300
07064 0 02000 0 07073 TRA IRVS60 OUT OF ORDER. GO TO REARRANGE. F2310310
07065 0 76100 0 00000 NOP
07066 1 77777 1 07067 IRVS40 TXI IRVS50+1+-1 BUMP FOR NEXT COMPARISON F2310330
07066 1 77777 1 07067 IRVS40 TXI IRVS50+1+-1 BUMP FOR NEXT COMPARISON F2310320
07067 3 00000 1 07062 IRVS50 TXH IRVS30+1 IS PASS COMPLETE (DEC HAS IRV INDEX) F2310340
07070 -0 76000 0 00144 MSE LIGHT YES * WAS OUT OF ORDER NABBED* F2310350
07071 0 02000 0 07100 TRA DELETE NO** SORT COMPLETE* F2310360
07072 0 02000 0 07061 TRA IRVS20 YES* MAKE ANOTHER PASS* F2310370
07073 0 56000 1 06626 IRVS60 LDQ IRVZ+1+1 REARRANGE F2310370
07074 0 60100 1 06626 STO IRVZ+1+1 THE OUT OF ORDER F2310390
07075 -0 60000 1 06625 STQ IRVZ+1 IRV ENTRIES AND F2310400
07076 0 76000 0 00144 PSE LIGHT INDICATE SAME* F2310410
07077 0 02000 0 07066 TRA IRVS40
07100 -0 53400 1 06664 DELETE LXD IRVX+1
07101 -0 63400 1 07112 SXD DEL30+1 INITIALIZE
07102 -0 53400 3 06714 LXD IRVMX+3 INITIALIZE CANDIDATE IR AND STANDARD IR
07103 2 00001 2 07104 TX DEL30*1 INITIALIZE CANDIDATE IR AND STANDARD IR
 07100 -0 53400 1 06664 DELETE LXD IRVXX+1
07101 -0 63400 1 07112 SXD DEL30+1 INITIALIZE
07102 -0 53400 3 06714 LXD IRVMAX+3 INITIALIZE CANDIDATE IR AND STANDARD IR
07103 2 00001 2 07104 TIX DEL10+2+1 BUMP CANDIDATE IR
07104 0 50000 2 06625 DEL10 CLA IRVZ+2 GET CANDIDATE.
07105 0 34000 1 06625 CAS IRVZ+1 COMPARE AGAINST STANDARD.
07106 0 02000 0 07116 TRA DEL40 CANDIDATE DOES NOT MATCH STANDARD.
07107 0 02000 0 07111 TRA DEL20 CANDIDATE DOES NOT MATCH STANDARD.
07108 0 07400 4 00004 TSX DIAG+4 IRV UNORDERED DESPITE SORT. ERROR. GO TO DIAGNOSTIC. F2310525
 07111 1 77777 2 07112 DEL20 TXI DEL30+2+-1 BUMP FOR NEXT CANDIDATE*
07112 3 00000 2 07104 DEL30 TXH DEL10+2 IS IT END OF PASS* (DEC HAS IRV INDEX) F2310540
07113 1 77777 1 07114 TXI DEL35+1+-1 YES* BUMP STANDARD IR*
07114 -0 63400 1 06664 DEL35 SXD IRVXX+1 SAVE NEW EDITED-IRV TABLE-SIZE INDICATION*
07115 0 02000 0 07120 TRA WRTTSX
F2310570
  07115 0 02000 0 07120 TRA WRTT5X
07116 0 60100 1 06626 DEL40 STO IRVZ+1,1 NOT DUPE, PUT CANDIDATE BACK. F2310580
07117 1 77777 1 07111 TXI DEL20,1,-1 AND INSTALL IT AS STANDARD. F2310590
WRITE EDITED TSXCOM TABLE ON DRUM F2310600
  07115 0 02000 0 07120 TRA WRTTSX
  07120 0 76600 0 00303 WRTTSX WRS ADRUM
                                                                                                                                                                                                                             F2310610
 F2310620
                                                                                                                                                                                                                             F2310630
                                                                                                                                                                                                                             F2310650
                                                                                                                                                                                                                             F2310660
                                                                                                                                                                                                                             F2310670
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	07127	0	26100	1	01407	WTCY10	ACI	TCOMZ • 1	COMPUTE	F2310680
	07127		36100				ACL	TCOMZ+1+1	CHECK SUM OF ALL ENTRIES	F2310690
			77775					WTSX20:1:-3		F2310700
	07132	ī	00002	2	07133	WTSX20		WT5X30+2+2		F2310710
D	07133	3	00000	ī	07127	WTSX30	TXH	WTSX10+1	IS THAT ALL OF TSXCOM. (DEC HAS TSXCOM LIMIT)	F2310720
			60200				SLW	WTSX60	STORE CHECK SUM.	F2310730
			53400				LXD	TCOM-1:1	COMPUTE	F2310740
			75400				PXD	0,1	NUMBER	F2310750
			76000				SSM		OF	F2310760
	07140	0	40000	0	06720		ADD	TCOMAX	TSXCOM	F2310770
	07141	-0	73400	1	00000		PDX	0,1	ENTRIES.	F2310780
			77100				ARS	18 TCOMAD	COMPUTE CORE	F2310790
			40000				ADD	TCOMAD	TERMINUS	F2310800
			62100				STA	WTSX40	AND INITIALIZE CPY ADDRESS FOR FIRST WORD,	F2310810
			40000				ADD	L(1)A	FOR SECOND	F2310820
			62100				STA	WTSX50	WORD.	F2310830 F2310840
	07147	-0	75400	2	00000		PXD	0 • 2	NOW CONTACTION NO OF TOUCON PHINITES HINGS & C	
	07150	0	60100	0	00030		510	0 • 2 TCOM-1 TCOMOR	NOW CONTAINS NO OF TSXCOM ENTRIES MINUS C.S.	F2310850 F2310860
	07151	0	46000	0	06715		LDA	TCOMOR	CRY HODD COUNT	
	07152	0	70000	0	00030			TCOM-1	CPY WORD COUNT	F2310880
			70000					TCOM-1 WRTIRV,2,0	IE ENDTY. EVIT.	F2310890
	07154	-3	00000	2	0/164	WTSX40		WKI1KV9290	WRITE TOUCH ENTRIES	F2310900
	07155	Ü	70000	1	00000	WTSX50	CPY	0-1	ONTO DRIM	F2310910
	0/156	ŏ	00003	1	07155	WISKSO	TIX	WTSX40,1,3	ON TO DROP!	F2310920
	0/15/	2	70000	1	07163			WTSX60	CHECKSUM	F2310930
	07161		70000				-	WTSX60	CILCROOM .	F2310940
	07162		02000					WRTIRV		F2310950
· A						WTSX60			C.S. STORAGE	F2310960
^	01103	•	00000	•	••••			WRITE EDITED	TABLE IRV ON DRUM	F2310970
	07164	0	76600	0	00303	WRTIRV	WRS	ADRUM		F2310980
	07165	-0	53400	ĭ	06664		LXD	IRVXX+1		F2310990
	07166	-0	63400	1	07173		SXD	IRVXX+1 WIRV2O+1	INITIALIZE TEST INSTR.	F2311000
	07167	-0	75400	0	00000		PXD	0.0		F2311010
	07170	-0	53400	1	06714			IRVMAX:1		F2311020 F2311030
	07171	0	36100	1	06625	WIRV10	ACL	IRVZ•1	COMPUTE CHECK SUM.	F2311030
	07172	1	77777	1	07173			WIRV20 + 1 + - 1		F2311040
Ð	07173	3	00000	1	07171	WIRV20	TXH	WIRV10.1	IS IRV DONE FOR. (DEC HAS IRV IX)	F2311050
			60200					WIRV40	CPY WORD COUNT ONTO DRUM IF EMPTY+ EXIT. WRITE TSXCOM ENTRIES ONTO DRUM CHECKSUM C.S. STORAGE TABLE IRV ON DRUM INITIALIZE TEST INSTR. COMPUTE CHECK SUM. IS IRV DONE FOR. (DEC HAS IRV IX) YES. SAVE C.S.	F2311060
			53400				_	IRVXX+1	COMPUTE	F2311070
			75400				PXD	0 • 1	NUMBER	F2311080
			76000				SSM	IRVMAX	OF	F23111090
	07200	0	40000	0	06714		ADD	IRVMAX	IRV ENIRIES	F2311110
			60100					IRVXX	AND SAVE	F2211120
			73400					0 • 1	CODE TERMINUS	F2311120
			77100				ARS	TOVAD	OF IDV.	F2311140
	07204	0	40000	0	06/13			IRVAD	INITIALIZE CDV.	F2311150
			62100					WIRV30	INTITUTE CELL	F2311160
	07206		46000					IRVORG IRVXX	WRITE WORD	F2311170
	07207	0	70000	Ô	06664			IRVXX	COUNT	F2311180
	07210	0	70000	0	07220			END,1,0	IS IRV DONE FOR. (DEC HAS IRV IX) YES. SAVE C.S. COMPUTE NUMBER OF IRV ENTRIES AND SAVE. COMPUTE CORE TERMINUS OF IRV. INITIALIZE CPY. WRITE WORD COUNT. EXIT IF IRV EMPTY. WRITE IRV.	F2311190
	0/211	-3	00000	1	00000	WIRV30		0.1	WRITE IRV.	F2311200
	07212	2	00001	1	07212	HIKADO	TIX	WIRV30,1,1		F2311210
	01213	4	00001	Ŧ	01212			H - 11 7 7 - 7 - 7 - 7 - 7		

	07214	O	70000	0	07217		CPY	WIRV40	WRITE	F2311220
	07215		70000				CPY	WIRV40	CHECK SUM.	F2311230
	07216		02000				TRA	END		F2311240
A	07217	0	00000	Õ	00000	WIRV40	HTR		C.S. STORAGE	F2311250
^	07220		76600					195	WRITE NR OF WDS IN TRASTO ON DRUM.	F2311260
	07221		50000				CLA	LADDS+1	ORIGIN PLUS NR OF WDS IN TRASTO	F2311270
	07222		40200					L(304A	LESS ORIGIN OF TRASTO	F2311280
	07223		60100					ENDES		F2311290
	07224		46000					L1302A		F2311300
	07225		70000					ENDES		F2311310
	07226	_	70000	-				ENDES		F2311320
	07227		02000					NORMRT	NORM RET MONITOR. GO TO SPACE TAPE 1	F2311335
A	07230	_				ENDES	HTR			F2311340
^	07231					L(302A				F2311350
	07232					L(304A				F2311360
	0.232	•	00000	•	77777			32767		F2311365
						TAUDRM		196		F2311370
						ADRUM		195		F2311380
						BDRUM		194		F2311390
						TAPE2		146	• • • • • • • • • • • • • • • • • • • •	F2311400
						TAPE3		147		F2311410
						LIGHT		100	IF FORVAL EMPTY, LIGHT ON.	F2311420
						REMOVE		MAKIRV		F2311430
					06377			DOTAGZ		F2311440
						ONETCS				F2311445
					00004		EQU			F2311446
A					00000		END	•		F2311450
~					2000					

71.

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REM BLOCK FOUR OF SECTION TWO.
                                   BLOCK FOUR OF SECTION TWO.
                                                                                                  F2400000
                                      MASTER RECORD CARD = FN045
                                                                                                  F2400005
                                   BLOCK 4
                                                                                                  F2400010
                                   THIS PART COMPILES THE SUBROUTINES WHICH COMPUTE
                                                                                                  F2400020
                                   INDEX LOAD VALUES FOR PURE RELCONS.
                                                                                                  F2400030
                                   THE LOAD VALUE FOR SUBSCRIPTS (C11+C2J+C3K) IS
                                                                                                  F2400040
                                   (C11-1)+(C2D1J-D1)+(C3D1D2K-D1D2)+1
                                   TABLE IRV, PRODUCED BY BLOCK 3, GIVES A LIST OF THE
                                                                                                  F2400050
                                                                                                  F2400060
                                   SUBROUTINES REQUIRED.
                                                                                                  F2400070
                               ORG 24
                 00030
                                                                                                  F2400080
                               BSS 100
                 00030
                        CIB
                                                                                                  F2400090
                        WRKSC BSS 8
                 00174
                                                                                                  F2400100
                 00204
                         BOB
                               BSS 152
                                                                                                  F2400110
                 00434
                         OR000 BSS 28
                                                                                                  F2400120
                 00450
                               ORG 296
                                                                                                  F2400130
                         OR012 OCT 010000000001
00450 +010000000001
                                                                                                  F2400140
                        OR013 OCT 06000000003
00451 +060000000003
                                                                                                  F2400150
                               ORG 302
                 00456
                                                                                                  F2400160
                         ORO18 OCT 010000000002
00456 +010000000002
                                                                                                  F2400170
                               ORG 310
                 00466
                                                                                                  F2400180
                         OR026 OCT 010000000003
00466 +010000000003
                                                                                                  F2400190
                               HTR 0
00467 0 00000 0 00000
                                                                                                  F2400200
                                                      SAVE STATUS OF SENSE-LIGHT3
      0 50000 0 01430 START1 CLA L(1)
00470
                                                                                                  F2400210
                                                      SO THAT IT CAN BE USED
                               MSE 99
00471 -0 76000 0 00143
                                                                                                  F2400220
                                                      IN THIS BLOCK.
       0 02000 0 00474
                               TRA START
00472
                                                                                                  F2400230
                               STO SENSE1
       0 60100 0 01415
00473
                                                      READ TABLE IRV (BOB ALSO)
                                                                                                  F2400240
                       START TSX RDRM+4
       0 07400 4 00752
00474
                                                     RETURN HERE IF NO ENTRIES.
                                                                                                  F2400250
                               TRA FINISH+9
       0 02000 0 00542
                                                     LOAD IRA WITH NO. OF IRV ENTRIES
                                                                                                  F2400260
                               LXD 1CNT+1
00476 -0 53400 1 01007
                                                                                                  F2400270
                                                     FORM END TEST FOR FIXCON SEARCH
      0 07400 4 00710
                               TSX INITFX:4
                                                     BEGIN WITH FIRST TABLE BOB ENTRY.
                                                                                                  F2400280
00500 -0 53400 2 01427
                               LXD L(0) .2
                                                                                                  F2400290
                                                      SELECT TABLE IRV ENTRY.
       0 50000 2 00204 REPETE CLA BOB,2
00501
                                                                                                  F2400300
                                                     PUT SUBCOM NAME IN NAME 1.
                               STA NAME1
       0 62100 0 01375
00502
                                                                                                  F2400310
                                                      PUT TAU REFERENCE
                               ARS 18
00503
       0 77100 0 00022
                                                                                                  F2400320
                                                      IN TAG1.
       0 62100 0 01376
                               STA TAGI
00504
                                                                                                  F2400330
                        ENTRY SXD BX+2
00505 -0 63400 2 01414
                                                                                                  F2400340
                               SXD AX+1
00506 -0 63400 1 01413
                                                                                                  F2400350
                                                     READ TAU ENTRY FROM DRUM.
                               TSX SUBCOM:4
00507
      0 07400 4 01143
                                                      COMPILE SUBROUTINE FRO COMPUTING
                                                                                                  F2400360
                               TSX COMPIL.4
00510
      0 07400 4 00562
                                                                                                  F2400370
                                                     LOAD VALUE.
                               LXD BX+2
00511 -0 53400 2 01414
                                                                                                  F2400380
00512 -0 53400 1 01413
                               LXD AX+1
                                                      STEP DOWN COUNT THROUGH TABLE IRV.
                                                                                                  F2400390
                               TXI TEST +2 +-1
00513 1 77777 2 00514
                                                                                                  F2400400
                               TNX FINISH,1,1
                                                      END OF TABLE IRV.
00514 -2 00001 1 00531
                                                                                                  F2400410
                                                      REDUNDANT.
                               CLA BOB,2
      0 50000 2 00204
                                                      COMPILE SUBROUTINE RETURN.
                                                                                                  F2400420
                               TSX LINKTR,4
      0 07400 4 00735
00516
                                                                                                  F2400430
                               TRA REPETE
00517
       0 02000 0 00501
                                                      THE INSTRUCTIONS FROM HERE
                                                                                                  F2400440
                               STA TAG2
       0 62100 0 01377
00520
                                                                                                  F2400450
                                                      THROUGH
                               SUB TAG1
00521
       0 40200 0 01376
                                                                                                  F2400460
                               TZE EQUAL
                                                      TRA ENTRY
       0 10000 0 00527
00522
                                                                                                  F2400470
                                                      ARE
                               TSX LINKTR,4
       0 07400 4 00735
00523
                                                                                                  F2400480
                                                      REDUNDANT
                               CLA TAG2
       0 50000 0 01377
00524
                                                                                                  F2400490
                               STO TAG1
       0 60100 0 01376
                                                                                                  F2400500
                               TRA ENTRY
```

00526 0 02000 0 00505

0	0527	0	07400 4	00674	EQUAL	TSX	STOTP:4	FORM LAST SUBROUTINE RETURNS FIXCON WORD COUNT ADJUST FIXCON WORDCT WRITE FIXCON WORDCT AND ITS CHECKSUM ON DRUMS IN ITS ORIGINAL POSITIONS AT THE BEGINNINGS WRITE CIT BUFFER ON TAPE WRITE CIT RECORDCOUNT AND CHECKSUM ON CIT TAPE WRITE E.O.F. ON CIT TAPE WRITE E.O.F. ON CIT TAPE UNTIL 1ST CIT RECORD THAT THIS BLOCK COMPILEDS TURN OFF ALL SENSE LIGHTSS RESET LIGHT 3 TO THE STATUS IT HELD BEFORE THE COMMENCEMENT OF THIS BLOCKS SKIP OVER DIAGNOSTIC RECORD ON SYSTEM TAPE	F2400510
ŏ	0530	Ö	02000 0	00513		TRA	TEST-1	SOOM LAST SUPPOSITIVE DETURN	F2400520
0	0531	0	07400 4	00735	FINISH	TSX	LINKTR•4	FORM LAST SUBROUTINE RETURNS	F2400530
0	0532	0	50000 0	01071		CLA	FC08+1	FIXCON WORD COUNT	F2400550
0	0533	0	76600 0	00302		WRS	194	AD HIST SINCON WORDS	F2400560
0	0534	-0	32000 0	01424		ANA	DECMSK	ADJUST PIXCON WDRDC:	F2400500
0	0535	0	40000 0	01421		ADD	LIDEC	WILL ELYCON WORDCE AND	F2400580
0	0536	0	77100 0	00021		AKS	17	MKILE FIXCON MONDEL AND	F2400590
0	0537	0	60100 0	01401		510	ADI	TTC ODICINAL DOCUTIONS AT THE	F2400600
0	0540	0	70000 0	01401		CPY	ADI	DECIMING.	F2400610
0	0541	0	70000 0	01401		CPY	AUI CITCD-4	WRITE CIT RUFFER ON TAPE	F2400620
0	0542	0	07400 4	01021		127	146	WRITE F.O.F. ONCIT TAPE	F2400630
0	0543	0	77000 0	00222		WEF	140	MKIIE ESOSIS ONGII INIE	F2400640
0	0544	0	76600 0	00222		WKS	DECCNIT	WRITE CIT RECORDCOUNT AND	F2400650
0	0545	0	70000 0	01400		CPT	RECENT	CHECKSIM ON CIT TAPE	F2400660
0	0546	0	70000 0	01400		WEE	164	WRITE FACAFA ON CIT TAPEA	F2400670
0	0547	U	77000 0	00222		WEF	DECCNT -1	BACKSPACE CIT TAPE	F2400680
0	0550	0	53400 1	01400	•	TVI	DCT.1.2	UNTIL 1ST CIT RECORD	F2400690
0	0551	Ţ	00003 1	00222	PCT	LSB	146	THAT THIS BLOCK COMPILED.	F2400700
0	0552	Ü	76400 0	00222	531	TIY	DCT-1-1	THE THE DECK COM DECE	F2400710
0	0553	2	00001 1	00552		DCE	04	TURN OFF ALL SENSE LIGHTS.	F2400720
C	0554	Ü	76000 0	00140		CLA	CENCE1	RESET LIGHT 3 TO THE STATUS	F2400730
0	0555	Ü	10000 0	01412		TZE	END	IT HELD BEFORE THE	F2400740
0	0556	Ň	74000 0	00260		DSF	00	COMMENCEMENT OF THIS BLOCK.	F2400750
Ü	0521	ŭ	76000 0	00143	END	PDS	145	SKIP OVER DIAGNOSTIC RECORD ON SYSTEM TAPE	
0	0200	×	03000	00221	LND	TRA	4	,	
0	0261	_0	63600 1	01402	COMPI	SXD	1 XBOX • 1		F2400770
0	0562	-0	63400 2	01402	COM 12	SXD	2XBOX•2		F2400780
~	0564	-0	63400 4	01012		SXD	LINK1:4	SAVE LINKAGE	F2400790
	0565	-0	76000 0	00140		PSE	96	TURN ALL SENSE LIGHTS OFF	F2400800
0	0565	Ô	07400 4	01240		TSX	COSE • 4	OBTAIN NAME OF IOEFF. IN FIXCON.	F2400810
~	0567	ñ	50000 0	01426		CLA	L(CLA)		F2400820
0	0570	ő	60100 0	01051		STO	CIL01	THIS ROUTINE COMPILES	F2400830
0	0571	ñ	50000 0	00451		CLA	OR000+13	THE INSTRUCTION	F2400840
ŏ	0572	-0	32000 0	01422		ANA	60NES		F2400850
ď	0573	ŏ	60100 0	01052		STO	CIL02	CLA 61+3,	F2400860
7	0574	ō	50000 0	01432		CLA	L(3)	WITH ZERO TAG,	F2400870
õ	0575	Õ	76700 0	00022		ALS	18	·	F2400880
n	0576	ŏ	60100 0	01053		STO	CIL03	TOGETHER WITH A SYMBOLIC	F2400890
ŏ	0577	ŏ	50000 0	01375		CLA	NAME1	LOCATION OF	F2400900
0	0600	-0	50100 0	01420		ORA	BCD10		F2400910
õ	0601	O	60100 0	01050	STOLOC	STO	CIL00	10)+NAME1	F2400920
Ö	0602	Õ	07400 4	01015		TSX	CIT+4	ENTER INSTR. IN CIT	F2400930
ŏ	0603	ō	50000 0	01425		CLA	L(STO)	·	F2400940
0	0604	0	60100 0	01051		STO	CIL01	THIS ROUTINE COMPILES THE	F 2400950
o	0605	0	50000 0	00466		CLA	OR000+26	INSTRUCTION.	F2400960
٥	0606	0	73400 1	00000		PAX	0.1		F2400970
Õ	0607	-0	32000 0	01422		ANA	60NES	STO 1)+3	F2400980
Õ	0610	-0	63400 1	01053		SXD	CIL03.1	THESE COMPILED INSTR. PLACE	F2400990
0	0611	0	60100 0	01052		STO	CIL02	1 IN ERASABLE STORAGE	F2401000
Õ	0612	-0	75400 0	00000		PXD	0		F2401010
Ō	0613	0	60100 0	01050		STO	CIL00	WRITE FIXON WORDLI AND ITS CHECKSUM ON DRUM, IN ITS ORIGINAL POSITION, AT THE BEGINNING. WRITE CIT BUFFER ON TAPE WRITE E.O.F. ONCIT TAPE WRITE E.O.F. ONCIT TAPE WRITE E.O.F. ON CIT TAPE WRITE E.O.F. ON CIT TAPE BACKSPACE CIT TAPE UNTIL 1ST CIT RECORD THAT THIS BLOCK COMPILED. TURN OFF ALL SENSE LIGHTS. RESET LIGHT 3 TO THE STATUS IT HELD BEFORE THE COMMENCEMENT OF THIS BLOCK. SKIP OVER DIAGNOSTIC RECORD ON SYSTEM TAPE SAVE LINKAGE TURN ALL SENSE LIGHTS OFF OBTAIN NAME OF IOEFF. IN FIXCON. THIS ROUTINE COMPILES THE INSTRUCTION CLA 6)+3, WITH ZERO TAG, TOGETHER WITH A SYMBOLIC LOCATION OF 10)+NAME1 ENTER INSTR. IN CIT THIS ROUTINE COMPILES THE INSTRUCTION. STO 1)+3 THESE COMPILED INSTR. PLACE 1 IN ERASABLE STORAGE ENTER INSTR. IN CIT	F2401020
٥	0614	0	07400 4	01015		TSX	CIT,4	ENTER INSTR. IN CIT	F 2401030
•									

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							٠		TOOT ACT CURE COLOT CANDO	F2401040
	00615	0	50000	0	00175		CLA	WRKSC+1	TEST IST SUBSCRIPT STMBUL	F2401040
	00616	0	10000	0	00630		TZE	\$2	NO SYMBOL PRESENT	F2401030
	00617	0	60100	0	00435		STO	OR000+1	SAVE SI FOR LXC ROUTINE	F2401000
	00620	0	53400	1	01433		LXA	L(4) +1	INDEX FOR NO. OF COMPILED INSTR.	F2401070
	00621	-0	76000	0	00141		MSE	97	DOES 1ST COEFF EXCEED 1	F2401080
	00622	0	02000	0	00624		TRA	COMP20	NO	F2401090
	00623	1	00002	1	00626		TXI	COMP30,1,2	YES. 6 INSTR. TO BE COMPILED	F2401100
	00624	0	50000	0	01436	COMP20	CLA	KLX02	NO. COMPILE INSTR TO COMPUTE	F2401110
	00625	0	02000	0	00627		TRA	COMP30+1	S1-1+(1 ALREADY IN ERASABLE)	F2401120
	00626	0	50000	0	01437	COMP30	CLA	KLX021	YES. COMPILE C1A1-1	F2401130
	00627	0	07400	4	01257		TSX	LXC,4	+(1 AREADY IN ERASABLE)	F2401140
	00630	0	50000	0	00177	\$ 2	CLA	WRKSC+3		F2401150
	00631	0	10000	0	00645		TZE	S3	TRA IF NO 2ND SUBSC. SYMBOL	F2401160
	00632	0	60100	0	00440		STO	OR000+4	SAVE S2 FOR LXC ROUTINE.	F2401170
	00633	0	50000	0	00202		CLA	WRKSC+6	OBTAIN SYMBOLIC ADDRESS	F2401180
	00634	Ŏ	07400	4	01054		TSX	FIXCON,4	OF DI IN FIXCON TABLE	F2401190
	00635	Õ	60100	0	00443		STO	OR000+7	AND STORE FOR LXC ROUTINE.	F2401200
	00636	o	53400	ì	01435		LXA	L(6) +1	6 INSTR. TO BE COMPILED	F2401210
	00637	-0	76000	ō	00142		MSE	98	IS COEFF. C2 GREATER THAN 1.	F2401220
	00640	õ	02000	ŏ	00643		TRA	COMP40	NO. COMPILE D1*S2-D1+	F2401230
	00641	ŏ	50000	ň	01440		CLA	KLX03	YES. 8 INSTR. COMPILED TO	F2401240
	00642	1	00002	ĭ	00644		TXI	COMP40+1+1+2	COMPUTE D1*S2*C3-D1+	F2401250
	00542	ā	50000	ñ	01441	COMP40	CLA	KL X031		F2401260
	00645	ň	07400	4	01257	C 01111 4.0	TSX	LXC+4	+ THAT ALREADY COMPUTED.	F2401270
	00077	ŏ	50000	7	00201	53	CLA	WRKSC+5	TEST FOR 3RD SUBSCRIPT	F2401280
	00045	ň	10000	ñ	00201	0,5	TZF	COMP55	SYMBOL •	F2401290
	00040	ň	40100	ň	00004		STO	08000+21	STORE FOR LXC ROUTINE.	F2401300
	00041	0	56000	ň	00701		LDG	WRKSC+6	COMPUTE D1*D2.	F2401310
	00000	×	20000	ň	00202		MPY	WRK SC+7	AND OBTAIN	F2401320
	00051	ň	76700	ň	00203		ALS	17	NAME FOR THIS CONSTANT FROM	F2401330
	00052	ŏ	07400	Ä	01054		TSX	FIXCON-4	FIXCON+ AND STORE FOR	F2401340
	00055	ň	60100	7	01054		STO	OR000+24	LXC ROUTINE.	F2401350
	00054	ň	53400	1	01435		LXA	L (6) • 1	6 INSTR. TO BE COMPILED	F2401360
	00055	-0	74000	Ť	01422		MSF	99	IS 3RD COEFF GREATER THAN 1.	F2401370
	00000	-0	02000	ŏ	00143		TRA	COMPSO	NO. COMPILE D1D2*53-D1D2+	F2401380
	00657	~	50000	~	01662		CLA	KI Y05	YES. COMPILE DID2*C3S3-D1D2+	F2401390
	00000	,	20000	1	00442		TYI	COMP50+1+1+2	1209 Com 122 William Coop William	F2401400
	00001	Ť	E00002	Ť	01662	COMPEO	CLA	KI Y051		F2401410
	00002	0	07400	6	01257	COMPOU	TSY	1 40.4	+ THAT ALREADY COMPUTED.	F2401420
	00663	. 0	07400	4	01231	COMPEE	127	BBOY.	· IIIAI MENENDI COM OTEDO	F2401430
	00004	-0	22400	4	01045	COMPSS	TYT	COMP55+2.4.4	STEP UP CIT BUFFER COUNT	F2401440
	00665	7	00004	4	01000		EAD	PROY - 4	SIEF OF CIT BOLLER COOK!	F2401450
	00666	-0	63400	4	01045		310	CTOTD - 6	COMPTLE INSTRUCTION TO STORE	F2401460
	00667	Ŏ	07400	4	00074		124	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	LOADING VALUE FOR SURSCRIPT COMB.	F2401470
	00670	-0	53400	Ť	01402		LXD	170071	ECADING TARGE FOR SOUGERIT F COMPA	F2401480
	006/1	-0	53400	2	01402		LXD	I TAIK 1 . A		F2401490
•	00672	-0	53400	4	01012		TOA	1 - 6	DETHON	F2401500
•	00673	0	02000	4	00001		IKA	174	POLITIME COMPLIES THE INSTR.	F2401510
	00674	-0	63400	4	01404	STOTP	SXD	LINKZ94	TO STORE THE RECHITS OF	F2401520
	00675	0	50000	0	01427		CLA	L(0)	THE CHRONITINE COMPLIATION IN	F2401520
	00676	0	60100	0	01050		510	CILOU	THE TAC NAME	F2401540
	00677	0	60100	0	01053		510	CILO3	THE INC THETPHETION IS	F2401240
	00700	0	50000	0	01425		CLA	L(STO)	THIS INSTRUCTION IS	F2401550
	00701	0	60100	0	01051		510	CILOI	CTO 101. NAMES	F2401360
	00702	0	50000	0	01375		CLA	NAME 1	TEST 1ST SUBSCRIPT SYMBOL NO SYMBOL PRESENT SAVE S1 FOR LXC ROUTINE INDEX FOR NO. OF COMPILED INSTR. DOES 1ST COEFF EXCEED 1 NO VES. 6 INSTR. TO BE COMPILED NO. COMPILE INSTR TO COMPUTE S1-1+(1 ALREADY IN ERASABLE) YES. COMPILE C1A1-1 +(1 AREADY IN ERASABLE) TRA IF NO 2ND SUBSC. SYMBOL SAVE S2 FOR LXC ROUTINE. OBTAIN SYMBOLIC ADDRESS OF D1 IN FIXCON TABLE AND STORE FOR LXC ROUTINE. 6 INSTR. TO BE COMPILED IS COEFF. C2 GREATER THAN 1. NO. COMPILE D1*S2-D1+ YES. 8 INSTR. COMPILED TO COMPUTE D1*S2*C3-D1+ + THAT ALREADY COMPUTED. TEST FOR 3RD SUBSCRIPT SYMBOL. STORE FOR LXC ROUTINE. COMPUTE D1*D2, AND OBTAIN NAME FOR THIS CONSTANT FROM FIXCON, AND STORE FOR LXC ROUTINE. 6 INSTR. TO BE COMPILED IS 3RD COEFF GREATER THAN 1. NO. COMPILE D1D2*S3-D1D2+ YES, COMPILE D1D2*C353-D1D2+ + THAT ALREADY COMPUTED. STEP UP CIT BUFFER COUNT COMPILE INSTRUCTION TO STORE LOADING VALUE FOR SUBSCRIPT COMB. RETURN ROUTINE COMPILES THE INSTR. TO STORE THE RESULTS OF THE SUBROUTINE COMPILATION IN THE TAG NAME. THIS INSTRUCTION IS	r24015/U

	00703	-0	50100	O	01417		ORA	BCD14		F2401580
	00704	ŏ	60100	ŏ	01052			CILO2		F2401590
			07400				TSX	CIT:4	ENTER IN CIT TABLE	F2401600
	• • • • •		53400				LXD	LINK2,4		F2401610
	• • • • •		02000				TRA	1,4	ENTER IN CIT TABLE RETURN	F2401620
	••••	•		•				ROUTINE FORMS END	RETURN TEST FOR FIXCON SEARCH ROUTINE LOAD READING ERROR COUNTER. READ FIXCON WD.CT AND ITS CHECKSUM TEST FOR READING ERROR. ERROR. IS FIXCON EMPTY. YES STORE END TEST IN FIXCON SEARCH ROUTINE RETURN TO MAIN ROUTINE. FIXCON IS EMPTY. SET FIRST FOUR LOCATIONS TO ZERO. STORE ZERO AS END TEST ERROR. TRY TO READ 3 TIMES. DRUM 2 READING ERROR FIVE TIMES. THIS ROUTINE COMPILES INSTRUCTION FOR RETURN	F2401630
	00710	Ω	53400	2	01434	INITEX	LXA	L(5) +2	LOAD READING ERROR COUNTER.	F2401640
	00711				00302		RDS	194		F2401650
	00712		70000				CPY	1CNT	READ FIXCON WD.CT	F2401660
	00713	Õ	70000	ō	01010		CPY	2CNT	AND ITS CHECKSUM	F2401670
	00714	Ö	50000	ō	01007		CLA	1CNT		F2401680
	00715		40200				SUB	2CNT	TEST FOR READING ERROR.	F2401690
			10000				TNZ	C6	ERROR.	F2401700
	00717				01007		CLA	1CNT	IS FIXCON EMPTY.	F2401710
	00720	_	10000				TZE	C4	YES	F2401720
	00721		40200				SUB	L(2)		F2401730
	00722		76700				ALS	17	STORE END TEST IN	F2401740
	00723				01071	C2	STD	FC08+1	FIXCON SEARCH ROUTINE	F2401750
	00724		02000			-	TRA	1,4	RETURN TO MAIN ROUTINE.	F2401760
	00725				00302	C 4	RDS	194	FIXCON IS EMPTY.	F2401770
	00726		70000			•	CPY	L(0)	SET FIRST FOUR LOCATIONS	F2401780
	00727				01427		CPY	L(0)	TO	F2401790
	00730				01427		CPY	L(0)	ZERO.	F2401800
	00731		70000				CPY	L(0)		F2401810
	00732		02000				TRA	C2	STORE ZERO AS END TEST	F2401820
	00733				00711	C6	TIX	C1,2,1	ERROR. TRY TO READ 3 TIMES.	F2401830
	00734	O	07400	4	00004		TSX	L(0) C2 C1,2,1 DIAG,4	DRUM 2 READING ERROR FIVE TIMES.	F2401840
	00735	0	50000	0	01427	LINKTR	CLA	L(0)	THIS ROUTINE COMPILES INSTRUCTION FOR RETURN TO THE FORTRAN MASTER ROUTINE. TRA1.4 FENTER IN CIT TABLE. RETURN	F2401850
	00736				01050		STO	CILOO	THIS ROUTINE COMPILES	F2401860
	00737	0	60100	0	01052		STO	CIL02	INSTRUCTION FOR RETURN	F2401870
	00740	0	50000	0	00750		CLA	L(TRA)	TO THE FORTRAN MASTER	F2401880
	00741	0	60100	0	01051		STO	CIL01	ROUT INE.	F2401890
	00742		50000				CLA	RELTG	TRA1,4	F2401900
	00743	0	60100	0	01053		STO	CIL03		F2401910
			63400				SXD	LINK1,4		F2401920
	00745	0	07400	4	01015		TSX	CIT,4	FENTER IN CIT TABLE.	F2401930
	00746	-0	53400	4	01012		LXD	LINK1,4		F2401940
			02000					1,4	RETURN	F2401950
			351210			L(TRA)	BCD	1TRA000		F2401960
	00751	+00	000010	000	004	RELTG	OCT	000001000004		F2401970
								ROUTINE READS AND	CHECKS TABLE IRV (ALSO CALLED BOB)	F2401980
	00752	0	53400	1	01434	RDRM		L(5) •1	LOAD ERROR COUNTER.	F2401990
	00753	-0	63400	4	01012		SXD	LINK1.4	SAVE ENTRY PT.	F2402000
	00754				00303	RDS	RDS	195		F2402010
	00755	0	53400	2	01013			L(152) +2		F2402020
	00756	0	46000	0	01014			L1304	DRUM ADDRESS OF TABLE IS 1304	F2402030
	00757	0	70000	0	01007			1CNT	READ WD. CT. OF TABLE.	F2402040
	00760	0	70000	0	01010			2CNT	DRUM ADDRESS OF TABLE IS 1304 READ WD. CT. OF TABLE. READ WD. CT. CHECKSUM. READ 150 TABLE ENTRIES. DOES WD. CT AGREE WITH ITS CHECKSUM. NO. ERROR. YES.	F2402050
	00761				00434	CPY		BOB+152 • 2	READ 150 TABLE ENTRIES.	F2402060
•	00762	2	00001	2	00761			CPY+2+1	5055 US 05 15055	F2402070
	00763		50000					1CNT	DOES WD. CT AGREE	F2402080
	00764	0	40200	0	01010			2CNT	WITH ITS CHECKSUM.	F2402090
			10000					EROR	NO ERROR	F2402100
			53400				LXD	1CNT+2	YES.	F2402110

. .

	· .	00767	3	00000	2	00772		TXH	PROCED , 2,0	IS TABLE EMPTY. YES. RETURN TO MAIN ROUTINE. TABLE IRV IS NOT EMPTY. INITIALISE IRC TO ZERO. FORM LOGICAL CHECKSUM OF ENTRIES COMPUTED CHECKSUM. DRUM CHECKSUM FOLLOWS LAST ENTRY. NOT EQUAL DRUM READ CORRECTLY. RETURN TRY TO READ THREE MORE TIMES. DRUM 3 READING ERROR FIVE TIMES. LENGTH OF TABLE IRV. WD. CT., CHECKSUMS ORG OF WD. CT OF TABLE IRV T BUFFER ON TAPE .IF FULL. THEN ENTERS ER.	F2402120
		00770	-0	53400	4	01012		LXD	LINK1,4	YES. RETURN TO	F2402130
		00771	0	02000	4	00001		TRA	1,4	MAIN ROUTINE.	F2402140
T		00772	-0	75400	0	00000	PROCED	PXD	0	TABLE IRV IS NOT EMPTY.	F2402150
		00773	-0	73400	4	00000		PDX	0 • 4	INITIALISE IRC TO ZERO.	F2402160
		00774	.0	36100	4	00204	ACCSUM	ACL	BOB • 4	FORM LOGICAL CHECKSUM OF	F2402170
		0.07.75	1	77777	4	00776		TXI	TIX,4,-1	ENTRIES	F2402180
		00776	2	00001	.2	00774	TIX	TIX	ACCSUM,2,1		F2402190
	4.	00777	0	60200	0	01011		SLW	LOGWD		F2402200
		01000	0	50000	0	01011		CLA	LOGWD	COMPUTED CHECKSUM.	F2402210
		01001	0	40200	4	00204		SUB	BOB • 4	DRUM CHECKSUM FOLLOWS LAST ENTRY.	F2402220
	:	01002	-0	10000	0	01005		TNZ	EROR	NOT EQUAL	F2402230
		01003	-0	53400	4	01012		LXD	LINK1,4	DRUM READ CORRECTLY.	F2402240
		01004	0	02000	4	00002		TRA	294	RETURN	F2402250
		01005	2	00001	1	00754	EROR	TIX	RDS,1,1	TRY TO READ THREE MORE TIMES.	F2402260
		01006	0	07400	4	00004		TSX	DIAG • 4	DRUM 3 READING ERROR FIVE TIMES.	F2402270
A		01007	0	00000	0	00000	1CNT	HTR			F2402280
A		01010	0	00000	0	00000	2CNT	HTR		•	F2402290
Ä		01011	0	00000	0	00000	LOGWD	HTR			F2402300
A		01012	. 0	00000	0	00000	LINK1	HTR		ϵ	F2402310
•••		01013	Q	00000	0	00230	L(152)	HTR	152	LENGTH OF TABLE IRV. WD. CT., CHECKSUMS	F2402320
		01014	0	00000	0	02430	L1304	HTR	1304	ORG OF WD. CT OF TABLE IRV	F2402330
		*,							ROUTINE WRITES CI	T BUFFER ON TAPE .IF FULL. THEN ENTERS	F2402340
									NEW CIT INTO BUFF	ER.	F2402350
		01015	-0	63400	1	01046	CIT	SXD	E2C+1		F2402360
		01016	-0	63400	2	01047		SXD	E3C+2		F2402370
		01017	-0	53400	2	01045		LXD	BBOX • 2	COMPLEMENT OF CURRENT BUFFER CT.	F2402380
		01020	3	77634	2	01034		TXH	CIT04,2,-100	BUFFER NEITHER FULL NOR ZERO	F2402390
		01021	-0	53400	2	01045	CITSP	LXD	BBOX • 2		F2402400
		01022	-3	00000	2	01034		TXL	CIT04,2,0	TRA IF BUFFER CT ZERO	F2402410
		01023	Õ	50000	Õ	01400		CLA	RECCNT	BUFFER IS ALREADY FULL.	F2402420
		01024	O	40000	0	01430		ADD	L(1)	UPDATE CIT RECORD COUNT.	F2402430
		01025	Ö	60100	0	01400		STO	RECCNT		F2402440
	•	01026	ō	76600	0	00222		WRS	146		F2402450
		01027	ō	53400	1	01427		LXA	L(0) +1	WRITE CIT BUFFER ON TAPE.	F2402460
		01030	Ō	70000	1	00030	CIT01	CPY	CIB,1		F2402470
		01031	1	77777	ī	01032		TXI	CIT02,1,-1		F2402480
		01032	1	00001	2	01033	CIT02	TXI	CIT03+2+1	STEP BUFFER COUNT BACK TO ZERO	F2402490
		01033	3	00001	2	01030	CIT03	TXH	CIT01,2,1	TEST FOR BUFFER END	F2402500
		01034	ō	53400	1	01433	CITO4	LXA	L(4),1		F2402510
		01035	ŏ	50000	ī	01054	CITO5	CLA	CIL00+4+1	STORE 4WD CIT IN BUFFER.	F2402520
		01036	ŏ	60100	2	00030		STO	CIB,2	;	F2402530
		01037	1	77777	2	01040		TXI	CIT07,2,-1	UPDATE CIT BUFFER COUNT	F2402540
		61040	2	00001	ī	01035	CIT07	TIX	CIT05,1,1		F2402550
		01041	-0	63400	5	01045		SXD	BBOX • 2	SAVE CIT BUFFER COUNT	F2402560
		01042	-0	53400	ī	01046		LXD	E2C+1		F2402570
	-	01042	-0	53400	5	01047		LXD	E3C+2	RELOAD INDEX REGS.	F2402580
		01044	0	02000	4	00001		TRA	1 • 4	RETURN	F2402590
		01044	0	00000	7	00000	BBOX	HTR	0	CIT BUFFER CT. INITIALLY ZERO	F2402600
á		01042	0	00000	õ	00000	F2C	HTR	•		F2402610
A		01040	0	00000	6	00000	F3C	HTR		T BUFFER ON TAPE *IF FULL. THEN ENTERS ER. COMPLEMENT OF CURRENT BUFFER CT. BUFFER NEITHER FULL NOR ZERO TRA IF BUFFER CT ZERO BUFFER IS ALREADY FULL. UPDATE CIT RECORD COUNT. WRITE CIT BUFFER ON TAPE. STEP BUFFER COUNT BACK TO ZERO TEST FOR BUFFER END STORE 4WD CIT IN BUFFER. UPDATE CIT BUFFER COUNT SAVE CIT BUFFER COUNT RELOAD INDEX REGS. RETURN CIT BUFFER CT. INITIALLY ZERO SYMBOLIC LOCN OF CIT OP.DAND DEC. OF CIT. SYMBOLIC ADDRESS OF CIT	F2402620
A		01047	U	00000	9	01050	CILOO	BSS	1	SYMBOLIC LOCN OF CIT	F2402630
						01051	CILOI	BSS	ī	OP.DAND DEC. OF CIT.	F2402640
						01052	C11.02	BSS	1	SYMBOLIC ADDRESS OF CIT	F2402650
						41475			-		

		01053	CIL03	BSS	1 REQUIRED FIXCON IS BEGUN. THE FIXCON NOT ALREADY THERE	REL. ADDRESS AND TAG. S IN ACC. WHEN THIS ROUTINE IS TABLE IS SEARCHED AND IF FIXCON IS IT IS ENTERED IN THE TABLE.	F2402660 F2402670 F2402680 F2402690
					(SEARCH IS MADE I	N TWO PASSES, ONE FOR EVEN ENTRIES, ONE	F2402700
						NG PURPOSES. EXIT WITH NAME OF ENTRY IN	
	01054 -0 63400	1 01107	FIXCON	SXD	FC29•1		F2402720 F2402730
	01055 -0 63400	2 01077		SXD	FC1892		F2402730
	01056 -0 63400	4 01111		STO	FC34,4	SAVE FIXCON.	F2402750
	01057 0 60100	0 01406		IYA	1 (5) 4	INITIALIZE DRUM ERROR COUNTER.	F2402760
	01000 0 53400	0 01142	ECO2	CLA	ORIGIN	INITIALISE AD1 TO SELECT 1ST ENTRY	F2402770
	01061 0 50000	0 01142		STO	AD1	AND ODD NUMBERED ENTRIES.	F2402780
	01063 0 53400	1 01427		LXA	L(0) +1	INITIALISE COUNT THROUGH TABLE	F2402790
	01064 0 53400	2 01431		LXA	L(2),2	INITIALISES FOR TWO FIXCON PASSES	F2402800
	01065 0 50000	0 01406	FC04	CLA	ERDRM1	REQD. FIXCON	F2402810
	01066 0 76200	0 00302		RDS	194	READ NEXT FIXCON ENTRY	F2402820
	01067 0 46000	0 01401		LDA	AD1		F2402830
	01070 0 70000	0 01407	FC08	CPY	CPYWD1	SAVE FIXCON. INITIALIZE DRUM ERROR COUNTER. INITIALISE AD1 TO SELECT 1ST ENTRY AND ODD NUMBERED ENTRIES. INITIALISE COUNT THROUGH TABLE INITIALISES FOR TWO FIXCON PASSES REQD. FIXCON READ NEXT FIXCON ENTRY DECR IS WD.CT OF FIXCON TABLE (INITFX) READ CHECKSUM OF ENTRY TRA IF ENTRY DOES NOT MATCH FIXCON. FALSE COPY. COMPARE WITH CHECKSUM. OBVIATED BY TLQ. SAVED IRB IN DECR. MATCH FOUND. FALSE COPY. NO MATCH INCREASE COUNT OF WORDS TESTED. BOTH PASSES ARE COMPLETED. ADJUST DRUM ADDRESS TO TEST EVEN NUMBERED ENTRIES. INITIALISE COUNT THROUGH TABLE TRA TO MAKE 2ND PASS. SAVED IRA IN DEC. FALSE COPY. DECR. CONTAINS ROUTINE LINKAGE. SEARCH COMPLETED. NO MATCH.	F2402840
D	01071 3 00000	1 01102		TXH	FC24+1•1	DECK IS WDOC! OF FIXCON FABLE (INT!FX)	F2402850
	01072 0 70000	0 01410		TLA	EC30	TOA IF ENTRY DOES NOT MATCH FIXCON.	F2402800
	01073 0 04000	0 01110		CDV	EDUDM	FALSE COPY	F2402880
	01074 0 70000	0 01405		CAS	CPYWD2	COMPARE WITH CHECKSUM.	F2402890
	01075 0 34000	4 00004		TSX	DIAG•4	OBVIATED BY TLQ.	F2402900
D	01077 -3 00000	0 01135	FC18	TXL	FC60+0	SAVED IRB IN DECR. MATCH FOUND.	F2402910
•	01100 0 70000	0 01405	FC20	CPY	ERDRM	FALSE COPY. NO MATCH	F2402920
	01101 1 00002	1 01070	FC24	TXI	FC08+1+2	INCREASE COUNT OF WORDS TESTED.	F2402930
	01102 -2 00001	2 01112		TNX	FC40,2,1	BOTH PASSES ARE COMPLETED.	F2402940
	01103 0 50000	0 01401		CLA	AD1	ADJUST DRUM ADDRESS	F2402950
	01104 0 40000	0 01431		ADD	L(2)	TO TEST EVEN NUMBERED ENTRIES.	F2402960
	01105 0 60100	0 01401		STO	AD1	THITTE COUNT THEOLIGH TARES	F2402970
	01106 0 53400	1 01430	FC28	LXA	L(1) +1	THA TO MAKE OND PASSA SAVED THA IN DEC.	F2402900 F2402900
D	01107 -3 00000	0 01065	FC29	CDV	EDUDM	FALSE COPY.	F2403000
_	01110 0 70000	0 01409	FC30	TYI	EC20.0	DECR. CONTAINS ROUTINE LINKAGE.	F2403010
D	01111 -5 00000	0 01100	FC40	STO	CPYWD1	SEARCH COMPLETED. NO MATCH.	F2403020
	01112 -0 53400	1 01071		LXD	FC08+1•1		F2403030
	01114 1 00001	1 01115		TXI	FC42+1+1	INCREASE FIXCON WD. COUNT AND	F2403040
	01115 -0 63400	1 01071	FC42	SXD	FC08+1+1	STORE AS NEW TEST.	F2403050
	01116 -0 75400	1 00000		PXD	0.1	FORM NEW ADDRESS	F2403060
	01117 0 77100	0 00021		ARS	17	FOR	F2403070
	01120 0 40000	0 01142	•	ADD	ORIGIN	DRUM WRITING.	F2403080
	01121 0 60100	0 01401		STO	AD1		F2403090
	01122 0 76600	0 00302		WRS	194	UDITE NEW ELYCON AND	F2403100
	01123 0 46000	0 01401		CDY	CDAMUI	ITS CHECKSIM ON DRUM.	F2403110
	01124 0 70000	0 01407		CPY	CPYWD1	110 CHECKOON ON PROME	F2403130
	01125 0 70000	1 00000	FC50	PXD	0.1	FORM NAME OF CONSTANT	F2403140
	01120 -0 72400	0 00000		ARS	18	IN ACC. NAME CONSISTS OF	F2403150
	01120 -0 50100	0 01416		ORA	BCD2	2 IN DEC.=2) FOR FIXCON TABLE.	F2403160
	01130 -0 53400	1 01107		LXD	FC29 • 1	AND ENTRY NO WITHIN TABLE,	F2403170
	01132 -0 53400	2 01077		LXD	FC18•2	IN ADDRESS.	F2403180
	01133 -0 53400	4 01111		LXD	FC34•4	TRA TO MAKE 2ND PASS. SAVED IRA IN DEC. FALSE COPY. DECR, CONTAINS ROUTINE LINKAGE. SEARCH COMPLETED. NO MATCH. INCREASE FIXCON WD. COUNT AND STORE AS NEW TEST. FORM NEW ADDRESS FOR DRUM WRITING. WRITE NEW FIXCON AND ITS CHECKSUM ON DRUM. FORM NAME OF CONSTANT IN ACC. NAME CONSISTS OF 2 IN DEC.=2) FOR FIXCON TABLE, AND ENTRY NO WITHIN TABLE, IN ADDRESS. RESTORE INDEX.	F2403190

										E2402200
	01134	0	02000	4	00001		TRA	1,4	RETURNO	F2403200
	01135	0	50000	0	01407	FC60	CLA	CPYWDI	MAICH FOUND TEST DROM READS	F2403220
	01136	0	40200	0	01410		SUB	CPYWD2	DOUBL DEAD CORRECTLY.	F2403230
	01137	0	10000	0	01126		TZE	FC50	DRUM KEAD CORRECTLIA	F2403240
	01140	2	00001	4	01061		TIX	FC02,4,1	DOWN 2 DEADING EDBOD FIVE TIMES.	F2403250
	01141	0	07400	4	00004	STOPFC	ISX	DIAG 14	DRUM 2 READING ERROR FIVE TIMES	F2403260
	01142	0	00000	0	00002	ORIGIN	HIK	Z	THE A TALL TAGE OPTAINS THE COPP.	F2403270
								CHIS ROUTINES GIVE	ON EDOM THE ADDRODULATE TALL TARLE	F2403280
								SUBSCRO COMDINATION	TTION C1.C1.C2.S2.S3.S3.D1.D2.	F2403290
		_				61106014	c v 0	AND STURES IN POS	CAVE C.D. ITNEAGE	F2403300
	01143	-0	63400	4	01224	SORCOM	SXU	50508594	INITIALIZE DRIM FORCE COUNTER.	F2403310
	01144	Ŏ	53400	Ţ	01434		CTO	CHOTAG	STORE TAIL TAG NAME.	F2403320
	01145	0	60100	ŏ	01237	CUBAIA	210	300 I AO	SELECT TALL DRIM	F2403330
	01146	0	50400	Ú	00304	308010	1 40	SUBOBC+2.4	INITIALIZE SUBSCRIPT COMBINATION	F2403340
4	01147	~0	75400	*	01234		DAD	0	WORKING SPACE	F2403350
T	01150	~0	19400	,	00000	SHBOOD	STO	MBK CC+8 * V	TO ZEROA	F2403360
	01151	.0	00100	7.	01151	300024	TIX	SUB02044 1		F2403370
	01152	~	500001	7	01131		CLA	SUBTAG	THESE INSTRUCTIONS PLACE	F2403380
	01154	٥	76500	٥	00011		LRS	9	TAU TABLE REQUIRED	F2403390
	01154	ŏ	73400	4	00011		PAX	0.6	(1.2 OR 3) IN IRB AND IRC.	F2403400
T .	01155	_0	75400	٥	00000		PXD	0		F2403410
,	01150	-0	76300	Ď	00000		115	o o	STORE ENTRY NUMBER	F2403420
	01157	ň	60100	ñ	01235		STO	SUBES1	WITHIN APPROPRIATE TAU TABLE.	F2403430
	01161	ō	76700	õ	00001		ALS	1		F2403440
	01162	ő	60100	ō	01236		STO	SUBES2	STORE TWICE TAU ENTRY NO.	F2403450
	01163	ŏ	50000	4	01235		CLA	SUBORG+3,4	SELECT APPROPRIATE TAU ORIGIN.	F2403460
	01164	ŏ	40000	٥	01235		ADD	SUBES1	FORM DRUM ADDRESS, WHICH EQUALS	F2403470
	01165	Ö	40000	0	01236	SUB030	ADD	SUBES2	TAU ORIGIN + ENTRY N/.*	F2403480
	01166	2	00001	4	01165		TIX	SUB030,4,1	NUMBER OF WORDS PER ENTRY	F 2403490
	01167	0	62100	0	01235		STA	SUBES1	(3 FOR TAUL,5 FOR TAUZ,7 FORTAU3)	F2403500
	01170	0	46000	0	01235		LDA	SUBES1	SELECT TAU ENTRY.	F2403510
	01171	0	70000	0	00174		CPY	WRKSC	DECR. C1, ADDR. C2	F2403520
	01172	-3	00002	2	01174		TXL	SUB040 + 2 + 2	1000	F2403330
	01173	0	70000	0	00200		CPY	WRKSC+4	FOR TAU 3, ADDR. C3.	F2403340
	01174	0	70000	0	00175	SUB040	CPY	WRKSC+1	\$1	F2403330
	01175	-3	00001	2	01202		TXL	SUB060,2,1	500 BAND ANDS. 63.	F2403360
	01176	0	70000	0	00177		CPY	WRKSC+3	FUR TAUZ ANDS 524	F2403580
	01177	-3	00002	2	01201		TXL	SUB050,2,2	500 *AU2 . 60 . AL 60	F2403590
	01200	0	70000	0	00201		CPY	WRKSC+5	ADDECC DADECD DI	F2403600
	01201	0	70000	0	00202	\$08050	CPY	WKKSC+6	CHECKEIN.	F2403610
	01202	0	70000	0	01235	S08060	CPY	SUBEST	Checksoni	F2403620
	01203	-0	53400	4	01232		LXD	SUBURG 94	COMPUTE	F2403630
	01204	-0	50000	0	00174		CAL	WRKSC	CHECKELIM.	F2403640
	01205	0	36100	4	00203	\$08070	ACL	WKK5C+794	CHECKSOM •	F2403650
	01206	2	00001	4	01205		117	5080709491		F2403660
	01207	0	60200	0	01236		SLW	SUBES2	TEST FOR	F2403670
	01210	0	50000	0	01236		CLA	5UBE 52	DEADING EDDOR.	F2403680
	01211	0	40200	0	01235		308	SUB 0.75	RETURN. MATCH FOUND. TEST DRUM READ. DRUM READ CORRECTLY. ERROR. TRY 3 TIMES. DRUM 2 READING ERROR FIVE TIMES. DRUM ORIGIN OF FIXCON TABLE. EN A TAU TAG. OBTAINS THE CORR. ON FROM THE APPROPRIATE TAU TABLE IIION (1):51:(2):52:33:353:51:02. SAVE S.R. LINKAGE INITIALIZE DRUM ERROR COUNTER. STORE TAU TAG NAME. SELECT TAU DRUM INITIALIZE SUBSCRIPT COMBINATION WORKING SPACE TO ZERO. THESE INSTRUCTIONS PLACE TAU TABLE REQUIRED (1):2 OR 3) IN IRB AND IRC. STORE ENTRY NUMBER WITHIN APPROPRIATE TAU TABLE. STORE TWICE TAU ENTRY NO. SELECT APPROPRIATE TAU ORIGIN. FORM DRUM ADDRESS, WHICH EQUALS TAU ORIGIN + ENTRY N/.* NUMBER OF WORDS PER ENTRY (3 FOR TAU1:5 FOR TAU2:7 FORTAU3) SELECT TAU ENTRY. DECR. C1: ADDR. C2 FOR TAU3. SO: ALSO ADDRESS D2:DECR.D1 CHECKSUM. TEST FOR READING ERROR. TRA. IF CORRECT IF ERROR; TRY FOUR MORE TIMES. REARRANGE WORDS WKKSC AND WKKSC+6: IN TURN; WHICH	F2403690
	01212	0	10000	0	01214		145	SUB010-1-1	IF FRROR TRY FOUR MORE TIMES.	F2403700
	01213	Z	00001	1	01146	CHRAZE	114	SUBODG1144	The Principal Line Language Language	F2403720
	01214	-0	53400	4	01233	200012	CLA	WDK SC+7.4	REARRANGE WORDS WRKSC	F2403730
	01215	0	30000	4	00203	300000	DAY	0.2	AND WRKSC+6. IN TURN. WHICH	F2403740
	01216	0	13400	2	00000		PAA	U 7 2	Dur Burgeral to family miseri	

			A DECHEY	CONTAIN C1 AND C2.DIAND D2.	F2403750
	01217 -0 32000 0 01424	Ar Si	IN WEKSC+7.4	CONTAIN C1 AND C2,D1AND D2. NONBCD CHARACTERS ARE STORED IN DECREMENT AND ORDER OF ITEMS IS NOW C1,S1,C2,S2,C3,S3,D1,D2. RESTORE LINKAGE INDEX TRA IF READING ERROR. RETURN DRUM 4 READING ERROR 5 TIMES. DECR. IS 6, ADDR. IS ORG TAU3 DECR. IS 7, ADDR IS ORG TAU2 DECR IS 8, ADDR IS ORG TAU1 ERASABLE ST. FOR DRUM ADDR. ERASABLE ST. FOR DRUM CHECK. S NAME OF EACH NONTRIVIAL COEFF. IN FIXCON	F2403760
	01220 0 60100 4 00203	D)	(D 0.2	ARE STORED IN DECREMENT	F2403770
	01221 -0 75400 2 00000	· TA	X SUB090.4.6	AND ORDER OF ITEMS IS NOW	F2403780
	01222 -2 00006 4 01229	S 1	O WRKSC+2	C1.S1.C2.S2.C3.S3.D1.D2.	F2403790
_	01223 0 60100 0 00176	CHONSE TY	(I SUBOROAD		F2403800
Đ	01224 -3 00000 0 01213	SUB000 17	CO WPK SC+7		F2403810
	01225 0 60100 0 00203	300070 31	(D SUB085+4	RESTORE LINKAGE INDEX	F2403820
	01226 -0 53400 4 01224	T)	(I SUB100+1+1+1	TRA IF READING ERROR.	F2403830
	01227 -3 00001 1 01231	CURION TO	A 1.4	RETURN	F2403840
	01230 0 02000 4 00001	300100 1	SY DIAGAA	DRUM 4 READING ERROR 5 TIMES.	F2403850
٠.	01231 0 07400 4 00004	SUBORG OF	T 000006001356	DECR. IS 6. ADDR. IS ORG TAU3	F2403860
	01232 +000000001356	308080 00	T 000007000454	DECR. IS 7. ADDR IS ORG TAU2	F2403870
	01233 +000007000454	00	T 00001000000	DECR IS 8. ADDR IS ORG TAUL	F2403880
	01234 +000010000000	CHOEST MI	rp	ERASABLE ST. FOR DRUM ADDR.	F2403890
A	01235 0 00000 0 00000	SUBEST HI	r D	FRASABLE ST. FO DRUM CHECK.	F2403900
A	01236 0 00000 0 00000	CUDIAG MI	r D		F2403910
A	01237 0 00000 0 00000	SOBIAG III	COSE ROUTINE FORM	S NAME OF EACH NONTRIVIAL COEFF. IN FIXCON	F2403920
			TARIFA AND SETS S	ENSE LIGHTS ACCORDINGLY.	F2403930
	03240 0 52400 1 01435	COSE 13	(A (6) • 1	INDEX TO SELECT SUBSCRIPTS IN TURN.	F2403940
	01240 0 53400 1 01432	(00)	(A L(3)•2	INITIALISE SENSE LT. SELECTION.	F2403950
	01241 0 53400 2 01432	5)	D LINKC.4		F2403960
	01242 0 50000 1 00202	COSES CI	A WRKSC+6+1	SELECT A S.C. COEFF.	F2403970
	01245 0 30000 1 00202	TZ	E COSEO8	TRA IF NO SUBSC. IN THIS DIMENSION.	F2403980
	01244 0 10000 0 01233	Si	JB LIDEC		F2403990
	01245 0 10000 0 01253	TZ	E COSEO8	S NAME OF EACH NONTRIVIAL COEFF. IN FIXCON ENSE LIGHTS ACCORDINGLY. INDEX TO SELECT SUBSCRIPTS IN TURN. INITIALISE SENSE LT. SELECTION. SELECT A S.C. COEFF. TRA IF NO SUBSC. IN THIS DIMENSION. TRA IF COEFF. IS ONE. SET CORRESPONDING SENSE LIGHT. ENTER COEFF IN FIXCON IF NOT ALREADY THERE. STORE NAME OF FIXCON ENTRY. REPEAT FOR ALL SUBSCRIPTS. RETURN SETS OF INSTRUCTIONS. GIVEN STARTING LOCN.	F2404000
,	01247 0 76000 2 00144	PS	SE 100+2	SET CORRESPONDING SENSE LIGHT.	F2404010
	01250 0 50000 1 00202	CI	A WRKSC+6+1	ENTER COEFF IN FIXCON IF	F2404020
	01251 0 07400 4 01054	T.S	X FIXCON,4	NOT ALREADY THERE.	F2404030
	01252 0 60100 2 00450	SI	TO QR000+12+2	STORE NAME OF FIXCON ENTRY.	F2404040
	01252 2 00002 1 01254	COSEO8 TI	X COSE10.1.2		F2404050
	01254 2 00001 2 01243	COSE10 T	X COSE5.2.1	REPEAT FOR ALL SUBSCRIPTS.	F2404060
	01255 -0 53400 4 01411	L	D LINKC+4		F2404070
	01255 -0 53400 4 01411 01256 0 02000 4 00001	TE	RA 1,4	RETURN	F2404080
	01230 0 02000 . 00001		ROUTINE COMPILES	RETURN SETS OF INSTRUCTIONS, GIVEN STARTING LOCN. FLETON IN ACC., AND NO. OF INSTR. IN IRA	F2404090
			OF APPROPRIATE SK	ELETON IN ACC. AND NO. OF INSTR. IN IRA	F2404100
	01257 -0 63400 4 01313	LXC S	(D LXC19+4		F2404110
	01260 0 60100 0 01412	Si	O ERLXC	SAVE LOCATION OF INSTR. SKELETON.	F2404120
	01261 -0 75400 1 00000	P	(D 0+1	NO. OF INST TO BE COMPILED.	F2404130
	01262 0 77100 0 00022	AF	RS 18		F2404140
	01263 0 40000 0 01412	A[DD ERLXC	FORM ADDRESS WHICH GIVES	F2404150
	01264 0 62100 0 01267	S1	TA LXC10	APPROPRIATE SKELETAL WORDS.	F 2404160
	01265 0 50000 0 01427	LXC08 CI	A L(0)	SET CIT SYMBOLIC LOCN. TO ZERO	F2404170
	01266 0 60100 0 01050	\$1	TO CILOO		F2404180
	01267 0 56000 1 00000	LXC10 L	Q 0,1	SELECT NEXT SKELETAL WORD.	F2404190
	01270 0 76300 0 00000	LI	_S 0	FOR COMPILATION. SET SIGN IN AC.	F2404200
	01271 -0 76300 0 00022	L	3L 18	BCD. OPERATION IS IN DECREMENT.	F2404210
	01272 -0 60000 0 01051	Si	ra ciloi	STORE OPERATION	F240424U
	01273 -0 12000 0 01314	TN	4I LXC20	CIT IS SHIFT TYPE INSTRUCTION.	F2404230
	01274 0 62100 0 01275	ST	TA LXC15	CIT IS SYMBOLIC ADDRESS TYPE.	F2404240
A.	01275 0 50000 0 00000	LXC15 CI	_A	ADDR. IS LOCATION OF SYMBOLIC ADDRESS	F2404250
^	01276 0 60100 0 01052	SI	O CILO2	OF CIT.	F2404260
	01277 0 50000 0 01427	CL	A L(0)	SAVE LOCATION OF INSTR. IN IRA SAVE LOCATION OF INSTR. SKELETON. NO. OF INST TO BE COMPILED. FORM ADDRESS WHICH GIVES APPROPRIATE SKELETAL WORDS. SET CIT SYMBOLIC LOCN. TO ZERO SELECT NEXT SKELETAL WORD. FOR COMPILATION. SET SIGN IN AC. BCD. OPERATION IS IN DECREMENT. STORE OPERATION CIT IS SHIFT TYPE INSTRUCTION. CIT IS SYMBOLIC ADDRESS TYPE. ADDR. IS LOCATION OF SYMBOLIC ADDRESS OF CIT. SET CIT TAG TO ZERO.	F2404210
	01300 0 60100 0 01053	\$1	O CILO3	SET CIT TAG TO ZERO.	F 2404280

31 \$

	01301	-0	50000	0	01052		CAL	CILO2	TEST FOR A COT SYMBOLIC ADDRESS OF THE TYPE 1)+3 OR6)+2 ERASABLE STORAGE NO YES. SEPARATE ADDRESS LEAVING THE CLASS OF SYMBOLS IN SYMBOLIC ADDRESS POSN. ALONE, AND PLACING ADDEND IN REL. ADDRESS POSITION. UNCOND. TRANSFER LINKAGE INDECR. CIT IS SHIFT TYPE INSTRUCTION I.E. ABSOLUTE ADDRESS ONLY. STORE ADDRESS IN CIT REL. ADDRESS. STORE ZERO AS SYMBOLIC ADDRESS. MAKE CIT ENTRY. RETURN FOR NEXT SKELETON INST. SKELETON COMPLETED. RETURN. CLA. THESE WORDS STO. CONSTITUTE THE CLA. CODING SUB. SKELETONS, ADD. AND ARE STO. CALLED UPON LOG. BY THE LXC MPY. ACCORDING ALS. TO THE SUB. DIFFERENT ADD. COMPUTATIONS STO. REQUIRED. LOG. MPY. THE TAG AND ALS. ADDRESS ARE SUB. THE BCD ADD. EQUIVALENTS OF STO. THE CIT LOG. INSTRUCTIONS. MPY. THE SYMBOLIC LRS. DECREMENTS ARE MPY. THE LOCATIONS ALS. OF THE SUB. ADDRESSES IN ADD. THE CIT STO. LDQ. THE NEGATIVE MPY. PREFIX INDICATES ALS. A PURELY SUB. ABSOLUTE ADDRESS ADD. STO. LDQ. MPY. BESOLUTE ADDRESS ADD. STO. LDQ. MPY.	F2404290
	01302	-0	32000	0	01422		ANA	60NES	SYMBOLIC ADDRESS OF THE TYPE	F2404300
	01303	0	10000	0	01321		TZE	LXC30	1)+3 OR6)+2 ERASABLE	F2404310
	01304	-0	32000	0	01423		ANA	BIT01	STORAGE	F2404320
	01305	-0	10000	0	01321		TNZ	LXC30	NO	F2404330
	01306	-0	50000	0	01052		CAL	CILO2	YES. SEPARATE ADDRESS LEAVING THE	F2404340
	01307	0	76700	0	00022		ALS	18	CLASS OF SYMBOLS IN SYMBOLIC	F2404350
	01310	0	62200	0	01053		STD	CIL03	ADDRESS POSN. ALONE, AND	F2404360
	01311	-0	50000	0	01422		CAL	60NES	PLACING ADDEND IN REL. ADDRESS	F2404370
	01312	0	32000	0	01052		ANS	CILO2	POSITION.	F2404380
	01313	-3	00000	0	01321	LXC19	TXL	LXC30.0	UNCOND. TRANSFER LINKAGE INDECR.	F2404390
	01314	0	76700	0	00022	LXC20	ALS	18	CIT IS SHIFT TYPE INSTRUCTION	F2404400
	01315	-0	32000	0	01424		ANA	DECMSK	I.E. ABSOLUTE ADDRESS ONLY.	F2404410
	01316	0	60100	0	01053		STO	CIL03	STORE ADDRESS IN CIT REL. ADDRESS.	F2404420
	01317	0	50000	0	01427		CLA	L(0)	STORE ZERO AS	F2404430
	01320	0	60100	0	01052		STO	CILO2	SYMBOLIC ADDRESS.	F2404440
	01321	0	07400	4	01015	LXC30	TSX	CIT+4	MAKE CIT ENTRY.	F2404450
	01322	2	00001	1	01265		XIT	LXC08,1,1	RETURN FOR NEXT SKELETON INST.	F2404460
_	01323	-0	53400	4	01313		LXD	LXC19,4	SKELETON COMPLETED.	F2404470
	01324	0	02000	4	00001		TRA	1,4	RETURN•	F2404480
	01325	0	00451	2	34321	LX100	HTR	14545,2,0R000+13	CLA. THESE WORDS	F2404490
	01326	0	00466	6	26346		HTR	11494,6,0R000+26	STO. CONSTITUTE THE	F2404500
	01327	0	00435	2	34321	LX102	HTR	14545,2,0R000+1	CLA. CODING	F2404510
	01330	0	00451	6	26422		HTR	11538,6,0R000+13	SUB. SKELETONS,	F2404520
	01331	0	00466	2	12424		HTR	5396,2,0R000+26	ADD. AND ARE	F2404530
	01332	Ò	00466	6	26346		HTR	11494,6,0R000+26	STO. CALLED UPON	F2404540
	01333	0	00435	4	32450	LX105	HTR	13608+4+OR000+1	LDQ. BY THE LXC	F 2404550
	01334	0	00445	4	44770		HTR	18936,4,0R000+9	MPY. ACCORDING	F2404560
	01335	-2	00021	2	14362		TNX	6386,2,17	ALS. TO THE	F 24045 / 0
	01336	0	00451	6	26422		HTR	11538,6,0R000+13	SUB. DIFFERENT	F2404580
	01337	0	00466	2	12424		HTR	5396,2,0R000+26	ADD. COMPUTATIONS	F2404590
	01340	0	00466	6	26346		HTR	11494,6,0R000+26	STO. REQUIRED.	F 2404600
	01341	0	00440	4	32450	LX110	HTR	13608,4,0R000+4	LDQ.	F2404610
	01342	0	00443	4	44770	-	HTR	18936,4,0R000+7	MPY. THE TAG AND	F2404620
	01343	-2	00021	2	14362		TNX	6386,2,17	ALS. ADDRESS ARE	F2404630
	01344	0	00443	6	26422		HTR	11538,6,0R000+7	SUB. THE BCD	F2404640
	01345	0	00466	2	12424		HTR	5396,2,OR000+26	ADD. EQUIVALENTS OF	F2404650
ų.	01346	0	00466	6	26346		HTR	11494,6,0R000+26	SIU. THE CIT	F2404660
	01347	0	00440	4	32450	LX116	HTR	13608,4,08000+4	LDQ. INSTRUCTIONS.	F2404610
	01350	0	00446	4	44770		HTR	18936,4,0R000+10	MPY. THE SYMBOLIC	F2404680
	01351	-2	00022	4	35162		TNX	14962,4,18	LRS. DECREMENTS ARE	F2404690
	01352	0	00443	4	44770		HTR	18936,4,0R000+/	MPY. THE LOCATIONS	F2404700
	01353	-2	00021	2	14362		TNX	6386,2,17	ALS. OF THE	F2404710
	01354	0	00443	6	26422		HTR	11538,6,0R000+7	SUB. ADDRESSES IN	F2404720
	01355	0	00466	2	12424		HTR	5396,2,0R000+26	ADD. THE CIT	F2404730
	01356	0	00466	6	26346		HTR	11494,6,0R000+26	SIU.	F2404/40
	01357	0	00461	4	32450	LX124	HTR	13608,4,0R000+21	LUU IHE NEGATIVE	F240413U
	01360	0	00464	4	44770		HTR	18936,4,0R000+24	MPT. PREFIX INDICATES	F2404700
	01361	-2	00021	2	14362		TNX	6386,2,17	ALDO A PURELT	F2404/10
	01362	0	00464	6	26422		HTR	11538,6,0R000+24	SUB. ABSULUTE ADDRESS	F2404180
	01363	0	00466	2	12424		HTR	5396,2,0R000+26	ADD.	F240417U
	01364	0	00466	6	26346		HTR	11494,6,0R000+26	5106	F2404800
	01365	0	00461	4	32450	LX130	HTR	13608,4,0R000+21	LDW•	F2404010
	01366	0	00447	4	44770		HTR	18936,4,0R000+11	MPT •	F4404020

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F2404830
                                                         LRS.
                                    TNX 14962,4,18
      01367 -2 00022 4 35162
                                                                                                    F2404840
                                   HTR 18936,4,0R000+24
                                                         MPY.
      01370 0 00464 4 44770
                                                                                                    F2404850
                                                         ALS.
                                   TNX 6386 • 2 • 17
      01371 -2 00021 2 14362
                                                         SUB.
                                                                                                    F2404860
                                   HTR 11538,6,0R000+24
      01372 0 00464 6 26422
                                                                                                    F2404870
                                                         ADD.
      01373 0 00466 2 12424
                                   HTR 5396,2,0R000+26
                                   HTR 11494,6,0R000+26 STO.
                                                                                                    F2404880
      01374 0 00466 6 26346
                                                                                                    F2404890
            0 00000 0 00000 NAME1 HTR
      01375
                                                                                                    F2404900
            0 00000 0 00000 TAG1 HTR
      01376
A
                                                                                                    F2404910
            0 00000 0 00000 TAG2 HTR
      01377
                                                                                                    F2404920
            0 00000 0 00000 RECCNT HTR
A
      01400
                                                                                                    F2404930
      01401 0 00000 0 00000
                             AD1 HTR
                            1XBOX HTR
                                                                                                    F2404940
      01402 0 00000 0 00000
                                                                                                    F2404950
                             2XBOX HTR
            0 00000 0 00000
      01403
                                                                                                    F2404960
                             LINK2 HTR
            0 00000 0 00000
      01404
                                                                                                    F2404970
      01405 0 00000 0 00000 ERDRM HTR
                                                                                                    F2404980
      01406 0 00000 0 00000 ERDRM1 HTR
                                                                                                    F2404990
      01407 0 00000 0 00000 CPYWD1 HTR
      01410 0 00000 0 00000 CPYWD2 HTR
                                                                                                    F2405000
                                                                                                    F2405010
                            LINKC HTR
      01411 0 00000 0 00000
                                                                                                    F2405020
                             ERLXC HTR
      01412 0 00000 0 00000
                                                                                                    F2405030
                             ΑX
                                   HTR
      01413 0 00000 0 00000
                                                                                                    F2405040
                                   HTR
      01414 0 00000 0 00000
                             вх
      01415 0 00000 0 00000 SENSE1 HTR
                                                                                                    F2405050
                                                                                                    F2405060
      01416 +0200000000000
                             BCD2 OCT 02000000000
                             BCD14 OCT 140000000000
                                                                                                    F2405070
      01417 +140000000000
                                                                                                    F2405080
                             BCD10 OCT 12000000000
      01420 +120000000000
                          L1DEC OCT 000001000000
                                                                                                    F2405090
      01421 +000001000000
                                                                                                   F2405100
                          60NES OCT 77000000000
      01422 -370000000000
                                                                                                   F2405110
                           BIT01 OCT 600000000000
      01423 -200000000000
                                                                                                   F2405120
                            DECMSK OCT 077777000000
      01424 +077777000000
                                                                                                   F2405130
                            L(STO) BCD 1STO000
      01425 626346000000
                            L(CLA) BCD 1CLA000
                                                                                                   F2405140
      01426 234321000000
                                                                                                   F2405150
      01427 0 00000 0 00000 L(0) HTR 0
                                                                                                   F2405160
      01430 0 00000 0 00001 L(1)
                                   HTR 1
                                                                                                   F2405170
      01431 0 00000 0 00002 L(2)
                                   HTR 2
                                                                                                   F2405180
      01432 0 00000 0 00003 L(3)
                                   HTR 3
                                                                                                   F2405190
      01433 . 0 00000 0 00004 L(4)
                                   HTR 4
                                                                                                   F2405195
      01434 0 00000 0 00005 L(5)
                                   HTR 5
                                                                                                   F2405200
      01435 0 00000 0 00006 L(6) HTR 6
                                                      SKELETON KEYS
                                                                                                   F2405210
            0 00000 0 01327 KLX02 HTR LX102
      01436
                                                      FOR LXC ROUTINE.
                                                                                                   F2405220
      01437 0 00000 0 01333 KLX021 HTR LX105
      01440 0 00000 0 01347 KLX03 HTR LX116
                                                                                                   F2405230
                                                                                                   F2405240
      01441 0 00000 0 01341 KLX031 HTR LX110
      01442 0 00000 0 01365 KLX05 HTR LX130
                                                                                                   F2405250
                                                                                                   F2405260
      01443 0 00000 0 01357 KLX051 HTR LX124
                                                                                                   F2405270
                       00450 OR012 SYN OR000+12
                                                                                                   F2405280
                       00451 OR013 SYN OR000+13
                                                                                                   F2405290
                             ORO18 SYN ORO00+18
                       00456
                                                                                                   F2405300
                             OR026 SYN OR000+26
                      00466
M
                                                                                                   F2405305
                              DIAG EQU 4
                      00004
                                                                                                   F2405310
                                   END
                      00000
                            OOR012 00450:00450
                            OORO13 00451,00451
                            OOR018 00456,00456
```

: 1

OOR026 00466 + 00466

00031

00032

00033

00034

00035

00043

00044

00045

00046

00047

00050

00051

00052

00053

00054

00055

00057

00060

1

00030

A2

TSX DIAG+4

TSX BINIT,4

LXA LO,2

0 76400 0 00222

0 76400 0 00222

0 76200 0 00222

0 70000 0 00124

0 70000 0 00124

0 76600 0 00333

1 00002 1 00044

0 76400 0 00222

2 00001 1 00044

0 77200 0 00223

0 77200 0 00224

0 76200 0 00224

0 70000 0 00124

0 02000 0 00050

0 76200 0 00221

0 02000 0 00004

0 02000 0 00050

0 76400 0 00222

0 02000 0 00033

0 07400 4 00004 A4

0 53400 2 00146 C

00056 -2 00001 1 00061 A3I

00063 0 07400 4 00132

00037 -0 76000 0 00012

00040 0 02000 0 00056

00041 -0 53400 1 00124

00042 -3 00000 1 00044

```
BLOCK FIVE OF SECTION TWO.
                          BLOCK 5 OF SECTION 2 USES INFORMATION GENERATED BY BLOCKS
                          1.2. AND 3 TO COMPILE ALL DO LOOP INDEXING INSTRUCTIONS.
                          DECREMENTS ARE COMPUTED, AND WHEN NECESSARY OPEN SUBROUTINES F2500050
                          ARE COMPILED TO COMPUTE THESE DECREMENTS AT OBJECT PROGRAM
                          TIME. AT THE END OF BLOCK 5 THESE INSTRUCTIONS ARE ON TAPE F2500070
                          3 IN SEMI-INVERTED ORDER. BLOCK 6 INVERTS THE DOFILE INTO ITF2500080
                          PROPER ORDER ONTO TAPE 4
                                                                                      F2500090
                                                                                      F250C100
                                                                                      F2500110
                                                                                      F2500120
                             MASTER RECORD CARD = FN047
                                                                                      F2500125
                          BEGIN INITIALIZATION
                          THE INITIALIZATION RECORD IS THE FIRST RECORD OB BLOCK 5 READF2500140
                          IN BY MONITOR. IT POSITIONS THE INPUT TAPES 2 AND 4 AND
                          REWINDS THE OUTPUT TAPE 3.IT READS THE NEXT RECORD (THE ALPHAF2500160
                          STATE) INTO CORES THEN WRITES IT ON DRUM 2. THEN IT READS F2500170
                          IN THE NEXT RECORD(COMMON + THE BETA STATE) + AND WRITES THE BF2500180
                          BETA STATE ON DRUM 1. IT READS THE ADTAG TABLE FROM DRUM 2 1F2500190
                          FIXCON IS CHECKED8 AND INITIALIZED IF NECESSARY. IF THERE AREF2500200
                          ANY DOS CONTROL IS PASSED TO MAN. IF THERE ARE NO DOS THE NEF2500210
                          NEXT RECORD, WHICH IS BLOCK 6, IS READ IN.
                      ORG 24
                                                                                     F2500230
                                           INITIALIZE ERROR COUNTER.
                                                                                     F2500240
0 53400 1 00131 AINIT LXA L5+1
                                           POSITION TAPE 2
                                                                                     F2500250
                      BST 146
                                           TO READ DOTAG
                                                                                     F2500260
                      BST 146
                                                                                     F2500270
                      RDS 146
                                           DO TAG REC COUNT
                      CPY CPYWD3
                                                                                     F2500280
                                         DO TAG REC COUNT
                      CPY CPYWD3
                                                                                     F2500290
                      WRS 219
                                                                                     F2500300
                                                                                     F2500310
                      RTT
                                           ERROR
                                                                                     F2500320
                      TRA A3I
                      LXD CPYWD3,1
                                                                                     F2500330
                      TXL A2:1:0
                                                                                     F2500340
                                                                                     F2500350
                      TXI A2+1+2
                                           BACKSPACE TO BEGINNING
                      BST 146
                                                                                     F2500360
                                           OF DOTAG RECORDS
                                                                                     F2500370
                      TIX A2:1:1
                                           REWIND OUTPUT TAPE
                      REW 147
                                                                                     F2500380
                                           REWIND TAGTAG TAPE
                                                                                     F2500390
                      REW 148
                                                                                     F2500400
                      RDS 148
                                           TAGTAG RECORD COUNT
                                                                                     F2500410
                      CPY CPYWD3
                                                                                     F2500420
                      TRA A3
                                           SKIP OVER DIAGNOSTIC RECORD ON SYSTEM TAPE F2500430
                      RDS 145
                                           E.D.F. READ IN NEXT BLOCK OF INST.
                      TRA 4
                          THE ALPHA STATE IS NOW IN CORES. CONTROL PASSES TO C.
                                                                                     F2500450
                                           E.O.R.
                                                                                     F2500460
                      TRA A3
                      TNX A4,1,1
                                           READING
                                                                                     F2500470
                      BST 146
                                           ERROR
                                                                                     F2500480
                      TRA A1
                                           ROUTINE
                                                                                     F2500490
```

WRITE BLOCK A ON DRUM

TAPE 2 HAS GOTTEN AN ERROR CHECK 5 TIMES. F2500500

F2500510

F2500520

	00064 00065				00221 00004		RDS	145 4	SKIP OVER DIAGNOSTIC RECORD ON SYSTEM TAPE READ NEXT RECORD	F2500530 F2500540
	00005	٠	02000	٠	00004			COMMON AND DETA C	TATE ARE NOW IN CORES CONTROL TO BASSER TO	052500550
								THE FOLLOWING INS	TRUCTION.	F2500560
	00066						LXA	L1,2		F2500570
	00067						TSX	BINIT+4	PLACE BLOCK B ON DRUM	F2500580
\$ F	00070						TSX	ADTGDM 94	READ ADTAG ENTRIES	F2500590
	00071						LXA	L5+1	INITIALIZE ERROR COUNTERS	F2500600
	00072					Cl	RDS	194	SELECT FIXCON DRUMA	F2500610
	00073						CPY	CPYWD3	WORD COUNT OF FIXCON	F2500620
	00074 00075						CPT	CPYWD3		F2500640
	00075						SHE	CDVWD4	•	F2500650
	00077						TN2	C6	ERROR IN DRUM READING	F2500660
	00100						CLA	CPYWD3		F2500670
	00101						TZE	C4	NO ENTRIES IN FIXCON	F2500680
	00102						SUB	L2		F2500690
	00103						ALS	17		F2500700
	00104					C2	STD	FC08+1	STORE WORD COUNT IN	F2500710
	00105						CLA	L(1)	DECREMENT OF FC08-1	F2500720
	00106	0	60100	0	05205		STO	SWICH2	SET SWITCH 2 TO 1	F2500730
	00107						MSE	99	PLACE BLOCK B ON DRUM READ ADTAG ENTRIES INITIALIZE ERROR COUNTER. SELECT FIXCON DRUM. WORD COUNT OF FIXCON ERROR IN DRUM READING NO ENTRIES IN FIXCON STORE WORD COUNT IN DECREMENT OF FC08-1 SET SWITCH 2 TO 1 IF NO DOTAGS. TRA MONITOR SKIP OVER DIAGNOSTIC RECORD ON SYSTEM TAPE	F2500740
	00110	0	02000	0	03654		TRA	MAN	IF NO DOTAGS,	F2500750
	00111						PSE	99	TRA MONITOR	F2500760
	00112						RDS	145	SKIP OVER DIAGNOSTIC RECORD ON SYSTEM TAPE	F2500770
	00113						TRA	4	OTHERWISE THA MAN.	F2500780
	00114					C4	WRS	194	NO ENTRICE. MRITE	F2500790
	00115	-					CDY	LO	NU ENIKIES WRITE	F2500800
	00116						CPY	10	LOCATIONS OF DRIM 3	F2500820
	00117 00120						CPY	1.0	ECCRITORS OF DROM, S	F2500830
	00120						TRA	C2		F2500840
	00122					C6	TIX	C1•1•1	DRUM 2 READING ERROR ROUTINE.	F2500850
	00123					-	TSX	DIAG • 4	DRUM 2 READING ERROR 5 TIMES.	F2500860
A						CPYWD3	HTR			F2500870
· 🔓						CPYWD4	HTR			F2500880
	00126					L1	HTR	1		F2500890
	00127					L2	HTR	2		F2500900
	00130					L3	HTR	3		F2500910
	00131	0	00000	0	00005	L5	HTR	5	TRA MONITOR SKIP OVER DIAGNOSTIC RECORD ON SYSTEM TAPE OTHERWISE TRA MAN. NO ENTRIES, WRITE ZEROS IN FIRST FOUR LOCATIONS OF DRUM 3 DRUM 2 READING ERROR ROUTINE. DRUM 2 READING ERROR 5 TIMES.	F2500920
								****	******************	F2500930
								BINIT WRITES A SE	FORM CHECK SUM FOR PROGRAM ON DRUM4 WRITE 1000 WORDS OF PROGRAM ONTO DRUM	F2500940 F2500950
		_		_			-	RESPECTIVELY,		F2500950
	00132					BINIT		LU 11000 - 1	EODN CHECK SIM EOD	F2500960
	00133		53400				LXA	L1000+1	PROCEAM ON DRIM	F2500970
M	00134	-			07226			RTXAC+1000+1	PROGRAM ON DROMA	F2500990
	00135							B1:1:1 CPYWD3		F2501000
	00136							L1000+1	· · · · · · · · · · · · · · · · · · ·	F2501010
	00137 00140							194,2	WRITE 1000 WORDS OF	F2501020
	00140				00147			L1000	PROGRAM ONTO DRUM	F2501030
	00141						CDY	CPYWD3		F2501040
м	00142					82	CPY	RTXAC+1000 • 1		F2501050
Pi	00145		00001					B2,1,1		F2501060
	*****	_		-						

00145	0	02000	4	00001		TRA	1.4		F2501070 F2501080
00146		00000			LO	HTR	1000		F2501080
00147	0	00000	0	01750	L1000	HIK	1000	**************************************	
								THE ADTAG TABLE FROM DRUM 3 INTO CORES.	F2506940
			_			<i>-</i> . •		INITIALIZE ERROR INDICATOR	F2506950
00150					ADTGDM	CLA	L(U)	INITIALIZE ERROR INDICATOR	F2506960
00151	0	60100	0	05223			ERORBX	CHECK SUM AREA	F2506970
00152					ADTGOS		LZEKMX+2		F2501100
00153		53400					LADMX+1	ADTAG AREA	
00154	_	76200					195	READ ADTEG TABLE	F2501110 F2501120
00155	0	46000	0	00217			DRADSI	KEAD ADIEG TABLE	
00156	0	70000	1	03466	ADTG10	CPY	ADTGMX+1	ADDRESS IS ORIGIN - MAX WORDS	F2501130
00157	-	50000					ALLONE	FENCE FOR TABLE END	F2501140
00160	-	70000					ADTGMX+1+1	.•	F2501150
00161	0	40200	1	03466			ADTGMX + 1		F2501160
00162		70000					ADTGMX+2+1	5110 AF #101 F	F2501170
00163	0	10000	0	00170			ADTG30	END OF TABLE.	F2501180
00164		70000					ADTGMX+3+1		F2501190
00165	1	77774	1	00166			ADTG20,1,-4	THE THE POP POUT OF	F2501200
00166	0	70000	2	01242	ADTG20		ZEKSUM • 2	CHECK SUM FOR DRMIAG.	F2501210
00167	1	77777	2	00156			ADTG10,2,-1		F2501220
00170	-0	63400	1	00207	ADTG30	SXD	ADTG38+1	MAX CURRENT TABLE SIZE.	F2501230
00171	-0	63400	1	04521		SXD	ADTGS1+1	, , , , , , , , , , , , , , , , , , ,	F2501240
00172	3	00617	1	00210		TXH	ADTG38+1,1,399	9 RETURN IF TABLE DEPLETED.	F2501250
00173		53400				LXA	LADMX • 1	START TO CHECK	F2501260
00174	0	53400	2	05124			LZEKMX+2	ALL CHECK SUMS.	F2501270
00175	-0	50000	1	03466	ADTG32	CAL	ADTGMX +1		F2501280
00176	ō	36100	1	03467		ACL	ADTGMX+1+1	END OF TABLE. CHECK SUM FOR DRMTAG. MAX CURRENT TABLE SIZE. 9 RETURN IF TABLE DEPLETED. START TO CHECK ALL CHECK SUMS.	F2501290
00177	0	36100	1	03470			ADTGMX+2,1		F2501300
00200		36100				ACL	ADTGMX+3.1		F2501310
00201	0	60200	0	00124		SLW	CPYWD3		F2501320
00202	0	50000	0	00124		CLA	CPYWD3		F2501330
00203		40200				SUB	ZEKSUM,2		F2501340
		10000				TNZ	EROR		F2501350
00205	1	77774	1	00206			ADTG34+1+-4		F2501360
00206	ī	77777	2	00207	ADTG34	TXI	ADTG38 • 2 • -1		F2501370
00207	· 3	00000	1	00175	ADTG38	TXH	ADTG32+1	TEST FOR END OF TABLE.	F2501380
00210		02000			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	TRA	1:4	END OF TABLE, READ CGRRECTLY.	F2501390
00211		50000			EROR	CLA	ERORBX	IF ERROR IN A CHECK THE	F2501400
00212	-	40000	-	-			L(1)	ENTIRE TABLE IS RE-READ.	F2501410
00212		60100					ERORBX	ENTIRE TABLE IS RE-READ. THIS IS DONE FOUR TIMES AFTER	F2501420
00214		40200				SUB	L5	THE FIRST READING OF THE TABLE.	F2501430
00215		10000					ADTG05		F2501440
00216	a	07400	4	00004	STOP	TSX	DIAG .4	DRUM 3 READING ERROR 5 TIMES.	F2501450
		000000			DRADSI	OCT	2664	DRMTG ORIGIN.	F2501460
00211							****	**************************************	F2501470
							******	**************************************	
								•	F2501490
									F2501500
							MASTER RECO	ORD CARD = FN051	F2501505
									F2501510
								**************************************	F2501520
								BEGIN BLOCK 5 COMMON	F2501530
				00030		ORG	24		F2501540
				20000					

```
F2501550
                 00030 CIB
                              BSS 100
                                                                                                 F2501560
                              BSS 450
                 00174 DOTAG
                                                                                                 F2501570
                 01076 TGTG
                              BSS 672
                                                                                                 F2501580
                 02336 OMXTGA BSS 200
                                                                                                 F2501590
                              BSS 404
                 02646 ADTG
                                                                                                 F2501600
                 03472 OADTGA BSS 100
                                                                                                 F2501610
                              BSS 8
                 03636 WRKSC
                                                                                                 F2501620
      -0 00000 0 00000 TAG1
                                                                                                 F2501630
      0 00000 0 00000 TAG2
                                                                                                 F2501640
      0 00000 0 00000 TAG21
03650
                                                                                                 F2501650
      0 00000 0 00000 TAG22
                                                                                                 F2501660
                 03652 TAG3
                              BSS 1
                                                                                                 F2501670
                 03653 TAG4
                              BSS 1
                                  MAN CONSTITUTES THE MAIN LINEAR FLOW THROUGH BLOCK 5. A
                                                                                                 F2501680
                                  SUBROUTINE PICKS A DO BETA OR ALPHA, AND THEN CONTROL IS PASSF2501690
                                  ED TO THE PROPER STATE, (BETA OR ALPHA), TO COMPILE ALL THE F2501700
                                  INDEXING INSTRUCTIONS FOR THAT PART OF THAT DO. CONTROL IS
                                  RETURNED TO MAN. THIS PROCESS IS REPEATED UNTIL ALL ALPHAS F2501720
                                  AND BETAS IN A NEST HAVE BEEN TREATED. THE WHOLE PROCEDURE IF2501730
                                  IS REPEATED FOR EACH NEST AND THEN CONTROL IS PASSED TO BLOCKF2501740
                                                     ************ F2501760
                                                     READ ONE NEST OF DOTAG
                                                                                                 F2501770
                              TSX TDOTG +4
      0 07400 4 04012
                                                                                                 F2501780
                                                     END OF PROBLEM
                              TRA MAN70
      0 02000 0 03740
                                                     INIT. DECREMENT OF TEST.
                                                                                                 F2501790
                              SXD DOGS60,2
03656 -0 63400 2 04142
                                                                                                F2501800
03657 -0 63400 2 03664
                              SXD MAN05,2
                                                                                                 F2501810
                              LXA LMXDTG +2
03660 0 53400 2 05057
                                                     MASK FOR T1 WORD OF DOTAG
                                                                                                F2501820
                              CAL TIMSK
03661 -0 50000 0 05103
                                                                                                F2501830
                                                    T1 WORD MUST HAVE
      0 32000 2 01104
                        MANO3 ANS DOTAGZ+6,2
03662
                                                                                                F2501840
                                                     SOME BITS REMOVED FOR
                              TXI MAN05,2,-9
      1 77767 2 03664
03663
                        MANO5 TXH MANO3,2
                                                     SXD LOCATION
                                                                                                F2501850
      3 00000 2 03662
                                                     READ NEST OF TAGTAGS
                                                                                                F2501860
                              TSX TTG,4
03665
      0 07400 4 04027
                                                     SAVE COUNT OF TAGTAGS IN NEST
                                                                                                F2501870
03666 -0 63400 2 04165
                              SXD FIND10,2
                                                                                                F2501880
                                                     ZERO.
                              CLA L(0)
03667
      0 50000 0 05133
                                                     INITIALIZE APPENDED TGTG
                                                                                                F2501890
      0 53400 2 05122
                              LXA LMXTGA . 2
03670
                                                                                                F2501900
                                                     TO.
                        MANO6 STO MXTGA , 2
03671
      0 60100 2 02646
                                                                                                F2501910
                              TIX MAN06,2,1
      2 00001 2 03671
03672
                                                     INITIALIZE APPENDED ADTAG
                                                                                                F2501920
                              LXA LZEKMX+2
      0 53400 2 05124
03673
                                                                                                F2501930
                                                     TO
      0 60100 2 03636
                        STO
                              STO ADTGA+2
                                                     ZERO
                                                                                                F2501940
                              TIX STO,2,1
03675
      2 00001 2 03674
                                                                                                F2501950
                                                     INITIALIZE
                        MAN10 CLA L(0)
      0 50000 0 05133
03676
                                                     INDICATORS
                                                                                                F2501960
                              STO BBOX
03677
      0 60100 0 05173
                                                                                                F2501970
                              STO DOIND
03700
      0 60100 0 05230
                                                                                                F2501980
                              STO DOIND1
      0 60100 0 05231
03701
                                                                                                F2501990
      0 60100 0 05233
                              STO SWICH1
03702
                                                                                                F2502000
                                                     INITIALIZE
                              CLA ALLONE
      0 50000 0 05123
03703
                                                                                                F2502010
                                                     INSTRUCTION COUNTER
                              STO VCTR
      0 60100 0 05244
03704
                                                                                                F2502020
                        MAN20 CLA L(1)
03705
      0 50000 0 05126
                                                                                                F2502030
                              STO LOCIND
03706
      0 60100 0 05222
                                                                                                F2502040
                                                    SELECT BOR A
                              TSX DOGS • 4
03707
      0 07400 4 04055
                                                    NEST COMPLETELY ANALYZED
                                                                                                F2502050
      0 02000 0 03731
                              TRA MAN50
03710
                              CLA SWICH1
                                                     IS APPROPRIATE
                                                                                                F2502060
      0 50000 0 05233
03711
                                                                                                F2502070
                                                    CODING IN CORES
                              CAS SWICH2
      0 34000 0 05205
03712
                                                                                                F2502080
                              TRA MAN35
      0 02000 0 03715
03713
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									WE C	F2502090
			02000					MAN40	YES	F2502100
			07400			MAN35		ABDRM 4	YES NO. READ STATE FROM DRUM	E2502110
			50000					SWICH1		F2502120
	03717	0	60100	0	05205		_	SWICH2		F2502130
	03720 -	0	53400	2	05230	MAN40		DOIND,2		F2502140
			50000					DOTAGZ + 2	SAVE A	F2502150
			62200				STD		SAVE A CURRENT DO	F2502160
	03723	0	73400	1	00000			0,1	CURRENT DO	F2502170
	03724 -	0	63400	1	05225			B•1	CORRENT DO	F2502180
	03725 -	0	73400	1	00000	MAN45	PDX	0,1	ACCUMULATOR . LEAVING BETA	F2502190
	03726 -	0	75400	1	00000			0.1	ACCOMOLATOR'S LEAVING BETA	F2502200
M	03727	0	07400	4	05256			RTXAC • 4	ACCUMULATOR, LEAVING BETA BACK TO DOGS WRITE CIT BUFFER ON TAPE END OF RECORD INDIC END OF FILE FOR DO FILE	F2502210
			02000					MAN20	WOLTE CIT DIRECTO ON TAPE	F2502220
	03731	0	07400	4	04352	MAN50		CITSP,4	WRITE CIT BUFFER ON TAFE	F2502220
	03732							147	THE OF DECORE INDIC	F2502250
			70000				_	L(0)	END OF RECORD INDIC	F2502250
			70000					L(0)		F2502250
	03735							L(0)		F2502270
			70000					L(0)		F2502210
	03737	0	02000	0	03654		-	MAN	THE OF THE FOR DO FILE	F2502200
• 1	03740					MAN70		147	END OF FILE FOR DO FILE	F2502300
			76600					-		F2502310
	03742	0	46000	0	05065			AD202		F2502320
	03743							DRADS2		F2502330
			70000					DRADS2		F2502340
	03745							193		F2502350
			70000				_	DRADS3		F2502360
	03747	0	70000	0	05064			DRADS3		F2502370
	03750							194		F2502380
			50000					FC08+1		F2502390
	03752 ~							DECMSK		F2502400
	03753							LIDEC		F2502410
	03754						ARS			F2502420
	03755							AD1	•	F2502430
			70000					AD1		F2502440
	03757							AD1		F2502450
•	03760						PSE	* -	SKIP OVER DIAGNOSTIC RECORD ON SYSTEM TAPE	
			76200						EXIT BLOCK 5.	F2502470
	03762	0	02000	0	00004		TRA	4	**************************************	
								ADDOM IS CALLED BY	Y MAN TO WRITE THE PROPEER DRUM STATES ALPHA	F2502490
									ES WHEN NECESSARY.	F2502500
		_			00000	ADDDM	CVD	ERORBX 4	STORE LINKAGE	F2502510
	03763 -					ADUKM		SWICH1:4	STONE ETHINGE	F2502520
			53400					L(5) +2	INITIALIZE DRUM READING ERROR COUNTER.	F2502530
	03765					DCDG4		194,4		F2502540
			76200			FUF 04		BLKSZE • 1	= OF INST PLUS CHECK SUM	F2502550
			53400					ABDRMA+1+4		F2502560
	03770							CHEKSM		F2502570
	03771	ŏ	70000	v	07203	DCDG8		RTXAC+1000+1		F2502580
M	03/12	Ō	70000	1	01220	FUFUO	TIY	PGPG8+1+1		F2502590
	03773	4	00001	Ţ	05112			L(0)		F2502600
			50000					BLKSZE + 1		F2502610
	03775	Ŏ	53400	1	07276	DCDC1A		RTXAC+1000+1		F2502620
M	03776	U	20100	Ţ	01220	POPULO	MC.	WINNE, 100017		

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03777	2	00001	1	03776		TIX	PGPG10,1,1		F2502630
04000	0	60200	0	05202		SLW	ERAB		F2502640
04001	0	50000	0	05203		CLA	CHEKSM		F2502650
04002	0	40200	0	05202		SUB	ERAB		F2502660
04003		10000				TZE	PGPG14		F2502670
04004	2	00001	2	03766		XIT	PGPG4+2+1 R	READING ERROR. TRY AGAIN 4 TIMES.	F2502680
		00000				TXL	PGPG12,4,0 W	WHICH DRUM.	F2502690
04006		07400				TSX	DIAG 94 D	DRUM 1 READ INCORRECTLY 5 TIMES.	F2502700
04007					PGPG12	TSX	DIAG 4 D	DRUM 2 READ INCORRECTLY 5 TIMES.	F2502710
04010	-0	53400	4	05223	PGPG14	LXD	ERORBX • 4		F2502720
04011		02000					1,4		F2502730
44011	•	02000	•					****************	F2502740
							TDOTG IS CALLED BY	MAN TO READ IN A NEST OF DOTAG ENTRIES.	F2502750
04012	0	53400	1	05132	TDOTG	LXA	L(5) •1		F2502760
04013								LOC. OF DOTAGZ	F2502770
04014		76200					146		F2502780
04015	ŏ	70000	2	01076	TDOTG4		DOTAGZ + 2		F2502790
04016		77777			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		TDOTG4 +2 +-1		F2502800
04017	_	02000						EF END OF PROBLEM	F2502810
04020		76600				WRS			F2502820
		76000				RTT			F2502830
04022		02000					TDOTG5 E	ERROR	F2502840
04022		02000					• •	RECORD CORRECTLY READ	F2502850
					TDOTG5			BACKSPACE AND REPEAT	F2502860
04024		00001			100105			IF NOT YET READ 3 TIMES	F2502870
04025	_							TAPE 4 READ INCORRECTLY 5 TIMES.	F2502880
04026	U	07400	4	00004		IJA		**************	
								AN TO READ IN A NEST OF TAGTAG ENTRIES	F2502900
			_		TTC			OCATION OF MAX TAP TABLE SIZE	F2502910
A4A27	Ω	E 24 00	2	n 5121					
04027		53400			TTG				
04030	0	53400	1	05132	TTG01	LXA	L(5) •1 I	INITIALIZE TAPE ERROR COUNTER.	F2502920 F2502930
04030 04031	0	53400 76200	1	05132 00224		LXA RDS	L(5) •1 I	INITIALIZE TAPE ERROR COUNTER.	F2502920 F2502930
04030 04031 0 4032	0	53400 76200 63400	0 2	05132 00224 04043	TTG01 TTG02	LXA RDS SXD	L(5) •1 I 148 TTG10•2 F		F2502920 F2502930 F2502940
04030 04031 04032 04033	0 -0 0	53400 76200 63400 70000	1 0 2 2	05132 00224 04043 02336	TTG01 TTG02	LXA RDS SXD CPY	L(5),1 I 148 TTG10,2 F MXTGTG,2	INITIALIZE TAPE ERROR COUNTER. FOR ERROR BACKUP IN READING	F2502920 F2502930 F2502940 F2502950
04030 04031 04032 04033 04034	-000	53400 76200 63400 70000 02000	1 0 2 2 0	05132 00224 04043 02336 04037	TTG01 TTG02	LXA RDS SXD CPY TRA	L(5),1 I 148 TTG10,2 F MXTGTG,2 TTG06	INITIALIZE TAPE ERROR COUNTER. FOR ERROR BACKUP IN READING	F2502920 F2502930 F2502940 F2502950 F2502960
04030 04031 04032 04033 04034 04035	-0 0 0	53400 76200 63400 70000 02000 07400	1 0 2 2 0 4	05132 00224 04043 02336 04037 00004	TTG01 TTG02	LXA RDS SXD CPY TRA TSX	L(5),1 I 148 TTG10,2 F MXTGTG,2 TTG06 DIAG,4 F	INITIALIZE TAPE ERROR COUNTER. FOR ERROR BACKUP IN READING FALXE END OF FILE ON TAPE 4.	F2502920 F2502930 F2502940 F2502950 F2502960 F2502970
04030 04031 04032 04033 04034 04035 04036	00000	53400 76200 63400 70000 02000 07400 02000	1 0 2 2 0 4 0	05132 00224 04043 02336 04037 00004 04041	TTG01 TTG02 TTG05	LXA RDS SXD CPY TRA TSX TRA	L(5),1 I 148 TTG10,2 F MXTGTG,2 TTG06 DIAG,4 F TTG07 E	FALXE END OF FILE ON TAPE 4.	F2502920 F2502930 F2502940 F2502950 F2502960 F2502970 F2502980
04030 04031 04032 04033 04034 04035 04036 04037	0 0 0 0 0 0 2	53400 76200 63400 70000 02000 07400 02000 00001	10220402	05132 00224 04043 02336 04037 00004 04041 04033	TTG01 TTG02 TTG05	LXA RDS SXD CPY TRA TSX TRA TIX	L(5),1 I 148 TTG10,2 F MXTGTG,2 TTG06 DIAG,4 F TTG07 E	FALXE END OF FILE ON TAPE 4. END OF RECORD, CORRECT EXIT.	F2502920 F2502930 F2502940 F2502950 F2502960 F2502970
04030 04031 04032 04033 04034 04035 04036 04037	0 0 0 0 0 0 2 0	53400 76200 63400 70000 02000 07400 02000 00001 07400	102204024	05132 00224 04043 02336 04037 00004 04041 04033 00004	TTG01 TTG02 TTG05	LXA RDS SXD CPY TRA TSX TRA TIX TSX	L(5),1 I 148 TTG10,2 F MXTGTG,2 TTG06 DIAG,4 F TTG07 E TTG05,2,1 DIAG,4 B	FALXE END OF FILE ON TAPE 4. END OF RECORD. CORRECT EXIT.	F2502920 F2502930 F2502940 F2502950 F2502960 F2502970 F2502980 F2502990 F2503000
04030 04031 04032 04033 04034 04035 04036 04037	000000000000000000000000000000000000000	53400 76200 63400 70000 02000 07400 02000 00001 07400 76600	1022040240	05132 00224 04043 02336 04037 00004 04041 04033 00004 00333	TTG01 TTG02 TTG05	LXA RDS SXD CPY TRA TSX TRA TIX TSX WRS	L(5),1 I 148 TTG10,2 F MXTGTG,2 TTG06 DIAG,4 F TTG07 E TTG05,2,1 DIAG,4 B	FALXE END OF FILE ON TAPE 4. END OF RECORD. CORRECT EXIT.	F2502920 F2502930 F2502940 F2502950 F2502960 F2502970 F2502980 F2502990
04030 04031 04032 04033 04034 04035 04036 04037 04040 04041	000000000000000000000000000000000000000	53400 76200 63400 70000 02000 07400 02000 00001 07400 76600 76000	10220402400	05132 00224 04043 02336 04037 00004 04041 04033 00004 00333	TTG01 TTG02 TTG05	LXA RDS SXD CPY TRA TSX TRA TIX TSX WRS RTT	L(5),1 I 148 TTG10,2 F MXTGTG,2 TTG06 DIAG,4 F TTG07 TTG05,2,1 DIAG,4 B 219	FALXE END OF FILE ON TAPE 4. END OF RECORD. CORRECT EXIT.	F2502920 F2502930 F2502940 F2502950 F2502960 F2502970 F2502980 F2502990 F2503000 F2503010 F2503020
04030 04031 04032 04033 04034 04035 04036 04037 04040 04041 04042 04043	00-00-02-00-3	53400 76200 63400 70000 02000 07400 02000 00001 07400 76600 76000 00000	102204024000	05132 00224 04043 02336 04037 00004 04041 04033 00004 00333 00012 04051	TTG01 TTG02 TTG05	LXA RDS SXD CPY TRA TSX TRA TIX WRS RTT TXL	L(5),1 I I 148 TTG10,2 F MXTGTG,2 TTG06 DIAG,4 F TTG07 TTG05,2,1 DIAG,4 B 219 TTG16 E	FALXE END OF FILE ON TAPE 4. BUFFER EXCEEDED. ERROR IN READING	F2502920 F2502930 F2502940 F2502950 F2502960 F2502970 F2502980 F2502990 F2503000 F2503010 F2503020 F2503030
04030 04031 04032 04033 04034 04035 04036 04037 04044 04044 04043 04044	000000000000000000000000000000000000000	53400 76200 63400 70000 02000 07400 02000 00001 07400 76600 76000 00000 00004	1022040240002	05132 00224 04043 02336 04037 00004 04041 04033 00004 00333 00012 04051 04045	TTG01 TTG02 TTG05 TTG06 TTG07 TTG10	LXA RDS SXD CPY TRA TSX TRA TIX TSX WRS RTT TXL TXL	L(5),1 I I 148 TTG10,2 F MXTGTG,2 TTG06 DIAG,4 F TTG07 TTG05,2,1 DIAG,4 B 219 TTG16 E TTG11,2,4	FALXE END OF FILE ON TAPE 4. BUFFER EXCEEDED. ERROR IN READING ERROR IN READING ERROR IN READING FIRST WORD LAST ENTRY	F2502920 F2502930 F2502940 F2502950 F2502970 F2502970 F2502980 F2502990 F2503000 F2503010 F2503020 F2503030 F2503040
04030 04031 04032 04033 04034 04035 04037 04040 04042 04043 04044 04044	00-00-00-00-00-00-00-00-00-00-00-00-00-	53400 76200 63400 70000 02000 07400 02000 00001 07400 76600 76000 00004 50000	10220402400022	05132 00224 04043 02336 04037 00004 04041 04033 00004 00333 00012 04051 04045 02336	TTG01 TTG02 TTG05 TTG06 TTG07 TTG10	LXA RDS SXD CPY TRA TSX TRA TIX WRS RTT TXL TXL TXI CLA	L(5),1 I 148 TTG10,2 F MXTGTG,2 TTG06 DIAG,4 F TTG07 TTG05,2,1 DIAG,4 B 219 TTG16 E TTG11,2,4 F MXTGTG,2 F	FOR ERROR BACKUP IN READING FALXE END OF FILE ON TAPE 4. END OF RECORD. CORRECT EXIT. BUFFER EXCEEDED. ERROR IN READING FIRST WORD LAST ENTRY FOR NEST END TEST	F2502920 F2502930 F2502940 F2502950 F2502960 F2502970 F2502980 F2503000 F2503010 F2503010 F2503020 F2503030 F2503040 F2503050
04030 04031 04032 04033 04034 04035 04036 04043 04044 04042 04043 04044 04045	000000000000000000000000000000000000000	53400 76200 63400 70000 02000 07400 02000 00001 07400 76600 76000 00004 50000 40200	102204024000220	05132 00224 04043 02336 04037 00004 04041 04033 00004 00333 00012 04051 04045 02336 05123	TTG01 TTG02 TTG05 TTG06 TTG07 TTG10 TTG11	RDS SXD CPY TRA TSX TRA TIX WRS RTT TXL TXL TXL SUB	L(5),1 I 148 TTG10,2 F MXTGTG,2 TTG06 DIAG,4 F TTG07 TTG05,2,1 DIAG,4 B 219 TTG16 E TTG11,2,4 F MXTGTG,2 F ALLONE E	FOR ERROR BACKUP IN READING FALXE END OF FILE ON TAPE 4. END OF RECORD. CORRECT EXIT. BUFFER EXCEEDED. ERROR IN READING FIRST WORD LAST ENTRY FOR NEST END TEST END OF NEST INDICATOR	F2502920 F2502930 F2502940 F2502950 F2502960 F2502970 F2502980 F2502990 F2503000 F2503010 F2503020 F2503030 F2503040 F2503050 F2503060
04030 04031 04032 04033 04034 04035 04037 04044 04043 04044 04043 04044 04045	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	53400 76200 63400 70000 02000 07400 02000 00001 07400 76600 76000 00004 50000 40200 10000	1022040240002204	05132 00224 04043 02336 04037 00004 04041 04033 00004 00333 00012 04051 04045 02336 05123 00001	TTG01 TTG02 TTG05 TTG06 TTG07 TTG10	LXA RDS SXD CPY TRA TSX TRA TIX TSX WRS RTT TXL TXI CLA SUB TZE	L(5),1 I 148 TTG10,2 F MXTGTG,2 TTG06 DIAG,4 F TTG07 TTG05,2,1 DIAG,4 B 219 TTG16 E TTG11,2,4 F MXTGTG,2 F ALLONE E 1,4	FOR ERROR BACKUP IN READING FALXE END OF FILE ON TAPE 4. END OF RECORD, CORRECT EXIT. BUFFER EXCEEDED. ERROR IN READING FIRST WORD LAST ENTRY FOR NEST END TEST END OF NEST INDICATOR END OF NEST	F2502920 F2502930 F2502940 F2502950 F2502960 F2502970 F2502980 F2503000 F2503010 F2503020 F2503020 F2503040 F2503050 F2503060 F2503070
04030 04031 04032 04033 04034 04035 04037 04040 04041 04042 04044 04045 04044 04045	000000000000000000000000000000000000000	53400 76200 63400 70000 02000 07400 02000 00001 07400 76600 76000 00000 40200 10000 00004	10220402400022042	05132 00224 04043 02336 04037 00004 04041 04033 000012 04051 04045 02336 05123 00001 04030	TTG01 TTG02 TTG05 TTG06 TTG07 TTG10 TTG11 TTG13	LXA RDS SXD CPY TRA TSX TRA TIX TSX WRS RTT TXL TXI CLA SUB TZE TIX	L(5),1 I 148 TTG10,2 F MXTGTG,2 TTG06 DIAG,4 F TTG07 TTG05,2,1 DIAG,4 B 219 TTG16 E TTG11,2,4 F MXTGTG,2 F ALLONE E 1,4 E TTG01,2,4	FALXE END OF FILE ON TAPE 4. END OF RECORD, CORRECT EXIT. BUFFER EXCEEDED. ERROR IN READING FIRST WORD LAST ENTRY FOR NEST END TEST END OF NEST INDICATOR END OF NEST	F2502920 F2502930 F2502940 F2502950 F2502960 F2502970 F2502980 F2503000 F2503010 F2503020 F2503020 F2503030 F2503040 F2503050 F2503060 F2503070 F2503080
04030 04031 04032 04033 04034 04035 04037 04040 04041 04042 04044 04045 04046 04047 04050	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	53400 76200 63400 70000 02000 07400 02000 00001 07400 76600 76600 00004 50000 40200 10000 00004 53400	102204024000220422	05132 00224 04043 02336 04037 00004 04041 04033 000012 04051 04045 02336 05123 00001 04030 04043	TTG01 TTG02 TTG05 TTG06 TTG07 TTG10 TTG11 TTG13	LXA RDS SXD CPY TRA TSX TRA TIX TSX WRS TIL TXI CLA SUB TZE TIX LXD	L(5),1 I 148 TTG10,2 F MXTGTG,2 TTG06 DIAG,4 F TTG07 TTG05,2,1 DIAG,4 B 219 TTG16 E TTG11,2,4 F MXTGTG,2 F ALLONE E 1,4 E TTG01,2,4 TTG10,2 T	FALXE END OF FILE ON TAPE 4. END OF RECORD, CORRECT EXIT. BUFFER EXCEEDED. ERROR IN READING FIRST WORD LAST ENTRY FOR NEST END TEST END OF NEST INDICATOR END OF NEST END REST	F2502920 F2502930 F2502940 F2502950 F2502960 F2502970 F2502980 F2503000 F2503010 F2503020 F2503030 F2503040 F2503050 F2503050 F2503060 F2503070 F2503080 F2503090
04030 04031 04032 04033 04034 04035 04037 04040 04041 04042 04044 04045 04046 04047 04051 04051	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	53400 76200 63400 70000 02000 02000 02000 00001 07400 76600 76000 00004 50000 40200 10000 00004 53400 76400	1022040240002204220	05132 00224 04043 02336 04037 00004 04041 04033 00012 04051 04045 02336 05123 05123 04043 04043	TTG01 TTG02 TTG05 TTG06 TTG07 TTG10 TTG11 TTG13	LXA RDS SXD CPY TRA TSX TRA TIX TSX WRS RTT TXI CLA SUB TZE TIX DBST	L(5),1 I 148 TTG10,2 F MXTGTG,2 TTG06 DIAG,4 F TTG07 TTG05,2,1 DIAG,4 B 219 TTG16 E TTG11,2,4 F MXTGTG,2 F ALLONE E 1,4 E TTG01,2,4 TTG01,2,4 TTG10,2 T 148	FALXE END OF FILE ON TAPE 4. END OF RECORD. CORRECT EXIT. BUFFER EXCEEDED. ERROR IN READING FIRST WORD LAST ENTRY FOR NEST END TEST END OF NEST INDICATOR END OF NEST INDICAT	F2502920 F2502930 F2502940 F2502950 F2502960 F2502970 F2502980 F2503000 F2503010 F2503020 F2503030 F2503050 F2503050 F2503060 F2503060 F2503060 F2503060 F2503070 F2503080 F2503090 F2503100
04030 04031 04032 04033 04034 04035 04040 04041 04042 04044 04045 04046 04046 04051 04052 04053	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	53400 76200 63400 70000 02000 02000 02000 00001 07400 76600 76000 00004 50000 40200 00004 53400 76400 00001	10220402400022042201	05132 00224 04043 02336 04037 00004 04041 04033 00012 04051 04045 02336 05123 00001 04043 04043 04043	TTG01 TTG02 TTG05 TTG06 TTG07 TTG10 TTG11 TTG13	LXA RDS SXD CPY TRA TSX TRX TRX WRS RTT TXI CLA SUB TIX DBST TIX DBST TIX	L(5),1 I 148 TTG10,2 F MXTGTG,2 TTG06 DIAG,4 F TTG07 TTG05,2,1 DIAG,4 B 219 TTG16 E TTG11,2,4 F MXTGTG,2 F ALLONE E 1,4 E TTG01,2,4 TTG10,2 T 148 T TTG02,1,1	FALXE END OF FILE ON TAPE 4. END OF RECORD. CORRECT EXIT. BUFFER EXCEEDED. ERROR IN READING FIRST WORD LAST ENTRY FOR NEST END TEST END OF NEST INDICATOR END OF NEST TAPE ERROR ROUTINE . LOAD TAG TABLE INDEX AND RETRY UP TO 5 TIMES.	F2502920 F2502930 F2502940 F2502950 F2502960 F2502970 F2502980 F2502990 F2503000 F2503020 F2503030 F2503050 F2503050 F2503060 F2503060 F2503070 F2503080 F2503090 F2503110
04030 04031 04032 04033 04034 04035 04037 04040 04041 04042 04044 04045 04046 04047 04051 04051	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	53400 76200 63400 70000 02000 02000 02000 00001 07400 76600 76000 00004 50000 40200 10000 00004 53400 76400	10220402400022042201	05132 00224 04043 02336 04037 00004 04041 04033 00012 04051 04045 02336 05123 00001 04043 04043 04043	TTG01 TTG02 TTG05 TTG06 TTG07 TTG10 TTG11 TTG13	LXA RDS SXD CPY TRA TSX TRX TRX WRS RTT TXI CLA SUB TIX DBST TIX DBST TIX	L(5),1 148 TTG10,2 MXTGTG,2 TTG06 DIAG,4 FTG07 TTG05,2,1 DIAG,4 B 219 TTG16 TTG11,2,4 MXTGTG,2 ALLONE 1,4 TTG01,2,4 TTG02,1,1 DIAG,4 TTG02,1,1 DIAG,4	FALXE END OF FILE ON TAPE 4. END OF RECORD. CORRECT EXIT. BUFFER EXCEEDED. ERROR IN READING FIRST WORD LAST ENTRY FOR NEST END TEST END OF NEST INDICATOR END OF NEST TAPE ERROR ROUTINE . LOAD TAG TABLE INDEX AND RETRY UP TO 5 TIMES. TAPE 4 READ INCORRECTLY 5 TIMES.	F2502920 F2502930 F2502940 F2502950 F2502970 F2502970 F2502980 F2503000 F2503010 F2503020 F2503030 F2503040 F2503050 F2503060 F2503060 F2503070 F2503080 F2503080 F2503090 F2503110 F2503120
04030 04031 04032 04033 04034 04035 04040 04041 04042 04044 04045 04046 04046 04051 04052 04053	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	53400 76200 63400 70000 02000 02000 02000 00001 07400 76600 76000 00004 50000 40200 00004 53400 76400 00001	10220402400022042201	05132 00224 04043 02336 04037 00004 04041 04033 00012 04051 04045 02336 05123 00001 04043 04043 04043	TTG01 TTG02 TTG05 TTG06 TTG07 TTG10 TTG11 TTG13	LXA RDS SXD CPY TRA TSX TRX TRX WRS RTT TXI CLA SUB TIX DBST TIX DBST TIX	L(5),1 I I 148 TTG10,2 F MXTGTG,2 TTG06 DIAG,4 F TTG07 TTG05,2,1 DIAG,4 B 219 TTG16 E TTG11,2,4 F MXTGTG,2 F ALLONE E L,4 TTG01,2,4 TTG01,2,4 TTG02,1,1 UDIAG,4 T ***********************************	FOR ERROR BACKUP IN READING FALXE END OF FILE ON TAPE 4. END OF RECORD, CORRECT EXIT. BUFFER EXCEEDED. ERROR IN READING FIRST WORD LAST ENTRY FOR NEST END TEST END OF NEST INDICATOR END OF NEST TAPE ERROR ROUTINE . LOAD TAG TABLE INDEX AND RETRY UP TO 5 TIMES. TAPE 4 READ INCORRECTLY 5 TIMES.	F2502920 F2502930 F2502940 F2502950 F2502970 F2502970 F2502970 F2503000 F2503010 F2503020 F2503030 F2503050 F2503050 F2503070 F2503080 F2503080 F2503090 F2503110 F2503120 F2503120 F2503130
04030 04031 04032 04033 04034 04035 04040 04041 04042 04044 04045 04046 04046 04051 04052 04053	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	53400 76200 63400 70000 02000 02000 02000 00001 07400 76600 76000 00004 50000 40200 00004 53400 76400 00001	10220402400022042201	05132 00224 04043 02336 04037 00004 04033 00012 04051 04045 02336 05123 00001 04043 04043 04043 04043	TTG01 TTG02 TTG05 TTG06 TTG07 TTG10 TTG11 TTG13	LXA RDS SXD CPY TRA TSX TRX TRX WRS RTT TXI CLA SUB TIX DBST TIX DBST TIX	L(5),1 I 148 TTG10,2 F MXTGTG,2 TTG06 DIAG,4 F TTG07 TTG05,2,1 DIAG,4 B 219 TTG16 E TTG11,2,4 F MXTGTG,2 F ALLONE E 1,4 E TTG01,2,4 TTG02,1,1 U DIAG,4 T ************************************	FOR ERROR BACKUP IN READING FALXE END OF FILE ON TAPE 4. END OF RECORD. CORRECT EXIT. BUFFER EXCEEDED. ERROR IN READING FIRST WORD LAST ENTRY FOR NEST END TEST END OF NEST INDICATOR END OF NEST TAPE ERROR ROUTINE . LOAD TAG TABLE INDEX AND RETRY JP TO 5 TIMES. TAPE 4 READ INCORRECTLY 5 TIMES. EXTENSION OF NEST TAPE 4 READ INCORRECTLY 5 TIMES.	F2502920 F2502930 F2502940 F2502950 F2502970 F2502970 F2502980 F2502990 F2503000 F2503020 F2503030 F2503050 F2503050 F2503060 F2503060 F2503070 F2503080 F2503090 F2503110 F2503120 F2503120 F2503140
04030 04031 04032 04033 04034 04035 04040 04041 04042 04044 04045 04046 04046 04051 04052 04053	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	53400 76200 63400 70000 02000 02000 02000 00001 07400 76600 76000 00004 50000 40200 00004 53400 76400 00001	102204024000220422014	05132 00224 04043 02336 04037 00004 04041 04033 00012 04051 04045 02336 05123 00001 04030 04043 04043 04043 04043 04031	TTG01 TTG02 TTG05 TTG06 TTG07 TTG10 TTG11 TTG13 TTG16	LXA RDS SXD CPY TRA TRA TRA TRA TRA TRA TRA TRA TRA TRA	L(5),1 I 148 TTG10,2 F MXTGTG,2 TTG06 DIAG,4 F TTG07 TTG05,2,1 DIAG,4 B 219 TTG16 E TTG11,2,4 F MXTGTG,2 F ALLONE E 1,4 E TTG01,2,4 TTG02,1,1 U DIAG,4 T TTG02,1,1 U DIAG,4 T ************************************	FOR ERROR BACKUP IN READING FALXE END OF FILE ON TAPE 4. END OF RECORD. CORRECT EXIT. BUFFER EXCEEDED. ERROR IN READING FIRST WORD LAST ENTRY FOR NEST END TEST END OF NEST INDICATOR END OF NEST TAPE ERROR ROUTINE . LOAD TAG TABLE INDEX AND RETRY JP TO 5 TIMES. TAPE 4 READ INCORRECTLY 5 TIMES.	F2502920 F2502930 F2502940 F2502950 F2502970 F2502970 F2502970 F2503000 F2503010 F2503020 F2503030 F2503050 F2503050 F2503050 F2503070 F2503080 F2503080 F2503090 F2503110 F2503120 F2503120 F2503130

04056 0 60100 0 05224	STO A STO B STO SWICH	ALL CALLS REQUIRED FOR	F2503170
04057 0 60100 0 05225	STO B	COMPARISON FOR EACH DO	F2503180
04060 0 60100 0 05226	STO SWICH		F2503190
04061 0 60100 0 05227	210 LEBROX		F2503200
04062 -0 53400 1 05231	LXD DOIND1+1	IF LEVEL OF LAST	F2503210
04063 -3 00000 1 04072	TXL DOGS20+1		F2503220
04064 0 50000 0 05233	CLA SWICH1		F2503230
04065 -0 10000 0 04072	TNZ DOGS20		F2503240
04066 0 50000 1 01103	CLA DOTAGZ+5,1	ANALYZED DOTAG ENTRY	F2503250
04067 -0 73400 1 00000	PDX 0+1	IS ONE THEN THE NEST	F2503260
04070 3 00001 1 04072	TXH DOGS20,1,1	HAS BEEN COMPLETELY	F2503270
04071 0 02000 4 00001	TRA 194	ANALYZED. IF NOT	F2503280
04072 0 53400 1 05057 DOGS2	O LXA LMXDTG.1	START SCAN AT FIRST ENTRY	F2503290
04073 0 50000 0 05226 DOGS2	O CLA CHICH		F2503300
04074 -0 10000 0 04104	TNZ DOGS25 CLA DOTAGZ 1	B PORTION UNDER CONSIDERATION	F2503310
04075 0 50000 1 01076	CLA DOTAGZ 1	A PORTION UNDER CONSIDERATION	F2503320
04076 -0 32000 0 05136	ANA BITI		F2503330
04077 -0 10000 0 04134	TNZ DOGS50	CONTINUE, ALREADY ANALYZED	F2503340
04100 0 50000 1 01076	CLA DOTAGZ:1	SETS UP A PORTION OF	F2503350
04101 -0 73400 2 00000	TNZ DOGS50 CLA DOTAGZ:1 PDX 0:2	DO FOR COMPARISON	F2503360
04102 -0 63400 2 05225	SXD B.2	PUT A OF DO IN INDICATOR B	F2503370
04103 0 02000 0 04114	TRA DOGS30	PROCEED T/ COMPARISON	F2503380
04104 0 50000 1 01076 DOGS2	5 CLA DOTAGZ:1	B PORTION UNDER CONSIDERATION	F2503390
04103 0 02000 0 04114 04104 0 50000 1 01076 DOGS2 04105 -0 32000 0 05137 04106 -0 10000 0 04134 04107 0 50000 1 01076 04110 -0 73400 2 00000	ANA BIT2	MASK TO INDICATE LOOKED AT	F2503400
04106 -0 10000 0 04134	TNZ DOGS50	ALREADY ANALYZED, CONTINUE	F2503410
04107 0 50000 1 01076	CLA DOTAGZ:1	SET UP A IN	F2503420
04110 -0 73400 2 00000	PDX 0+2	B WORD FOR COMPARISON	F2503430
04111 -0 63400 2 05224	SXD A+2 PAX 0+2 SXD B+2		F2503440
04112 0 73400 2 00000	PAX 0,2		F2503450
04113 -0 63400 2 05225	SXD B+2		F2503460
04114 0 50000 0 05225 DOGS3	O CLA B		F2503470
	CAS TEBBOX TRA DOGS45	n tu 755504	F2503480
04116 0 02000 0 04125		T-B1 STORE B IN TEBBOX	F2503490
04117 0 02000 0 04121	TRA DOGS40	1=B1 COMPARE AS	F2503500
04120 0 02000 0 04134	TRA DOGS50	I-BI CONTINUE	F2503510
04121 0 50000 0 05232 DOGS4	O CLA TEABOX	CONPARE AS	F2503520
04122 0 34000 0 05224	CAS A	T A CONTINUE	F2503530
04123 0 02000 0 04134	TRA DOGS50	T-A EDDOD	F2503540
04124 0 07400 4 00004	TRA DOGS50 TSX DIAG+4:	T-A STORE D IN TODACY	F2503550
04125 0 50000 0 05224 DOGS4	STO TEABOX	I-W STOKE O TH TROOPY	F2503570
04126 0 60100 0 05232	_		F2503580
04127 0 50000 0 05225	CLA B		F2503590
04130 0 60100 0 05227	SIU IEBBUX	PECARD THE DO POSITION	F2503600
04131 -0 63400 1 05231	CLA B STO TEBBOX SXD DOIND1:1 CLA SWICH STO SWICH1	PECOPD SWITCH	F2503610
04132 0 50000 0 05226	STO SWICH	RECORD SHITTEN	F2503620
04133 0 60100 0 05233 04134 0 50000 0 05226 DOGS5 04135 0 40200 0 05126 04136 0 76000 0 00003 04137 0 60100 0 05226 04140 -0 10000 0 04142	STO SWICH	REVERSE SWITCH FOR	F2503630
04134 0 50000 0 05226 00053	SIR I (1)	FITHER B OF SAME DO OR	F2503640
04135 0 40200 0 03120	SSP	A OF NEXT DO	F2503650
04135 0 (0000 0 00003	STO SWICH	,, VI 112A1 - V	F2503660
04140 -0 10000 0 04142	TNZ DOGS60	TESTS A.B STATUS IF A	F2503670
04140 -0 10000 0 04142	SSP STO SWICH TNZ DOGS60 TXI DOGS60:1:-9	LOWERS INDEX FOR NEXT DO	F2503680
04141 1 77767 1 04142 04142 3 00000 1 04073 DOGS6	o TXH DOGS22 1	ALL CALLS REQUIRED FOR COMPARISON FOR EACH DO IF LEVEL OF LAST ANALYZED DOTAG ENTRY IS ONE THEN THE NEST HAS BEEN COMPLETELY ANALYZED. IF NOT START SCAN AT FIRST ENTRY B PORTION UNDER CONSIDERATION A PORTION UNDER CONSIDERATION CONTINUE, ALREADY ANALYZED SETS UP A PORTION OF DO FOR COMPARISON PUT A OF DO IN INDICATOR B PROCEED T/ COMPARISON B PORTION UNDER CONSIDERATION MASK TO INDICATE LOOKED AT ALREADY ANALYZED, CONTINUE SET UP A IN B WORD FOR COMPARISON T-B1 STORE B IN TEBBOX T-B1 CONTINUE CONPARE AS T-B1 CONTINUE T-A, ERROR. T-A STORE B IN TRBBOX RECORD THE DO POSITION RECORD SWITCH REVERSE SWITCH FOR EITHER B OF SAME DO OR A OF NEXT DO TESTS A,B STATUS IF A LOWERS INDEX FOR NEXT DO END OF SCAN	F2503690
04142 3 00000 1 04073 00030	LXD DOIND1:1	END OF SCAN	F2503700
U4145 TU 55400 1 05251	270 00.110274		

	04144 -		63400	1	05230		SXD	DOIND • 1	DO INDICATOR SET ORDER TO PLACE BIT IN A OR B USED INDICATOR POSITION EXIT AFTER FINDING DO	F2503710
	04145	ŏ	53400	Ž	05233		LXA	SWICH1,2		F2503720
	04146	Õ	50000	ō	05136		CLA	BIT1	ORDER TO PLACE BIT IN	F2503730
	04147 -	3	00000	2	04151		TXL	DOGS70+2+0	A OR B USED	F2503740
	04150	0	77100	0	00001		ARS	1	INDICATOR POSITION	F2503750
	04151 -	0	60200	1	01076	DOGS70	OR5	DOTAGZ • 1		F2503/60
	04152	0	02000	4	00002		TRA	2,4	EXIT AFTER FINDING DO	F2503770
								*****	**************************************	F2503760
									FOR THE FIRST ENTRY THAT IS MODIFIED BY A	
								DO WHOSE ALLPHA I	S LESS THAT THE CURRENT DOTAG BETA.	F2503800
								THIS TAG IS CALLED	D RIXIGX.	F2503820
	04153	0	53400	1	05121	SCAN	LXA	LMXTG 1	COMPARE B WITH DOFOR	F2503830
	04154	0	50000	0	05225	SCAN05	CLA	B	DOING A UP EACH INGING	F2503840
	04155	0	34000	1	02336		CAS	MXIGIG 1	ENIKY IN NEST	F2503850
	04156	1	00004	1	04161		TXI	SCANIU 9194	SCARCH COMPLETED	F2503860
	04157	0	07400	4	00004		TSX	DIAG94	G LECC THAN A.	F2503870
	04160	1	77774	1	04154	CC4 N 1 O	1 X 1	SCANUD 9 1 9 - 4	G CESS THAT NO	F2503880
	04161	0	02000	4	00001	SCANIO	IKA	194	S LESS THAT THE CURRENT DOTAG BETA. D RTXTGX. COMPARE B WITH DOFOR DOTAG A OF EACH TAGTAG ENTRY IN NEST SEARCH COMPLETED. EQUALITY IMPOSSIBLE. G LESS THAN A.	F2503890
								EIND. REGINATING W	ITH RTXTGX. SEARCHES FOR A TAGTAG ENTRY MODI	F2503900
								EIED BY THE CURRE	NT DO.	F2503910
		_			04176	EIND	CVD	FIND 22.4		F2503920
	04162 -	.0	63400	4	04170	FIND	370	YTG.1		F2503930
	04163 -	•	77774	1	00231	ETNDO4	TYI	FIND10+1+-4	BUMP TO NEXT TGTG ENTRY.	F2503940
_	04164	1	00000	1	04100	FINDIO	TYH	FIND20-1	DECREMENT CONTAINS TGTG COUNT.	F2503950
Đ	04165	<u>و</u> ٥.	53400	4	04176	111010	LXD	F1ND22 • 4		F2503960
	04166	0	02000	7	00001		TRA	1.4	END OF TGTG TABLE AND DO.	F2503970
	0410;	ň	50000	0	05224	FIND20	CLA	A	COMPARE DOTAGA WITH	F2503980
	04170	ñ	34000	1	02336	, 1,,,,,,,	CAS	MXTGTG • 1	TGTG DOFOR DOTAG A.	F2503990
	04172	ñ	02000	ō	04166		TRA	FIND10+1	END OF DO.	F2504000
	04173	õ	76100	Ď	00000		NOP			F2504010
	04174	ŏ	07400	4	04213		TSX	TGFM+4		F2504020
	04175	ō	07400	4	04204	•	TSX	ISC+4		F2504030
Ð .	04176 -	.3	00000	o	04164	FIND22	TXL	FINDO4.0	ITH RTXTGX. SEARCHES FOR A TAGTAG ENTRY MODINT DO. BUMP TO NEXT TGTG ENTRY. DECREMENT CONTAINS TGTG COUNT. END OF TGTG TABLE AND DO. COMPARE DOTAGA WITH TGTG DOFOR DOTAG A. END OF DO. POSIND=3 IF LEFTMOST SYMBOL. 2IF CENTER. 1 IF RIGHTMOST.	F2504040
•	04177 -	0	75400	2	00000		PXD	0,2	2IF CENTER.	F2504050
	04200	0	77100	0	00022		ARS	18	1 IF RIGHTMOST.	F 2504060
	04201	0	60100	0	05240		STO	POSIND		F 2504070
	04232 -	. 0	53400	4	04176		LXD	FIND22+4		F 2504080
	04203	0	02000	4	00002		TRA	2,4	SUCCESSFUL SEARCH.	F2504090
	•							****	**********	F2504100
								ISC IS CALLED BY	**************************************	F250411U
	04204	0	53400	2	05126	ISC	LXA	L(1),2	COMPARE SUBSCRIPT	F2504120
	04205	0	50000	0	05230		CLA	DOIND	WITH THE INDEX	F2504130
	04206						SUB	TAG2+3,2	OF THE CURRENT DU.	F2504140
	04207	0	10000	4	00002		TZE	2,4	CURRENT DO MODIFIES INIS TAGE	F2504150
	04210.	1	00001	2	04211		TXI	ISC+5,2,1	IKT NEXI LEFT	F2504170
	04211 -	•3	00003	2	04205		TXL	15C+1,2,3	SUDSCRIPTO	F2504180
	04212	0	02000	4	00001		TRA	1,4	NO MODIFICATION	F2504190
								**************	ENTRY AND CTORES ITS INFORMATION INTO	F2504200
								HORKING TOTAL	ENILL WAR STOKES TIS THEOLEMITON THIS	F2504210
		_				terk	~ .	WURKING (GIGS		F2504220
	04213	0	50000	1	02336	IGFM	CLA	MXTGTG:1	IN WORKING TOTGA	F2504230
	04214	0	62200	õ	03646		DIV	U-3	A. Y1. Y2. X3. TG. TG1.	F2504240
	04215	Ü	13400	2	00000		FAA	V72	ENTRY AND STORES ITS INFORMATION INTO IN WORKING IGIG. A, X1, X2, X3, TG, TG1.	

									E2504.050
04216	-0	63400	2	03647			TAG2+2		F2504250
04217	0	50000	1	02337			MXTGTG+1+1		F2504260
		62200				_	TAG2+1		F2504270
		73400				PAX	0,2		F2504280
04222	-0	63400	2	03651			TAG2+2 • 2		F2504290
04223	0	50000	1	02340		CLA	MXTGTG+2.1		F2504300
		60100					TAG3		F2504310
		50000				CLA	MXTGTG+3,1		F2504320
		60100				STO	TAG4		F2504330
04227	0	02000	4	00001		TRA	1,4		F2504340
							****	*******************************	FF 2504350
							ENTR SIMULATES A	TAU ENTRY AND SPREADS IS INTO WORKING TAG-	F2504360
04230	-0	53400	2	05230	ENTR	LXD	DOIND+2	SYMBOL OF DO IS	F2504370
04231	ō	50000	2	01077		CLA	DOTAGZ+1,2	PLACED IN WRKSC	F2504380
04232	0	60100	ō	03637		STO	WRKSC+1	AND COEF. IS SET	F2504390
04232	ō	50000	ō	05061		CLA	L1DEC	≠1. THIS SIMULATES	F2504400
	_		_			STO	WRKSC	A TAU TABLE ENTRY.	F2504410
04234	õ	02000	4	00001		TRA	1.4	SYMBOL OF DO IS PLACED IN WRKSC AND COEF IS SET =1. THIS SIMULATES A TAU TABLE ENTRY.	F2504420
04233	•	02000	•				****	**************************************	F2504430
							SUBCOM SPREADS A	TAU ENTRY INTO WORKING TAG	F2504440
04226	-0	63400	4	04320	SUBCOM	SXD	SUB085 • 4	SAVE LINKAGE.	F2504450
04230	0	53400	1	05132	00000	LXA	L(5) •1	•	F2504460
04231	õ	60100	ñ	04331		STO	SUBTAG		F2504470
04240	ñ	76200	ñ	00304	SUB010	RDS	196	SELECT TAU DRUM.	F2504480
04241	-0	53400	4	04326	000010	LXD	SUBORG+2•4	INITIALIZE	F2504490
04242	-0	75400	7	00000		PXD	0.0	SUBSCRIPT COMBINATION.	F2504500
04242	-0	60100	<i>'</i>	03646	SUB020	STO	WRKSC+8+4	TO ZERO.	F2504510
04244	2	00100	4	04244	3000,20	TIX	SUB020 • 4 • 1	,	F2504520
04245	~	00001	7	04231		CLA	SURTAG		F2504530
04246	V	74500	0	00031		LDS	9		F2504540
04247	Ü	70200	Ž	00011		DAY	0.6	TAU 1-2- OR 3-	F2504550
04250	Ü	75400	0	00000		DAU	0.0	TAU 1 ADD. IS ORG+3TAU.	F2504560
04251	-0	75400	0	00000		LIS	0	TAU2 ADDA IS ORG+5TAUA	F2504570
04252	Ō	16300	0	00011		STO	CHREST	TAU THREE ADD. IS ORG+7TAU.	F2504580
04253	Ö	60100	Ŏ	04321		AI S	1	STORE	F2504590
04254	Ü	16100	0	00001		STO	CHDEC2	ADRRESS	F2504600
04255	Ū	60100	Ö	04220		310	SUBOBG#3.4		F2504610
04256	0	50000	4	04321		ADD	SUBCRUTS 94	FOR LDA	F2504620
04257	0	40000	Ŏ	04321	CHOOSO	ADD	CUDECT	INSTRUCTION	F2504630
04260	Ü	40000	Ú	04330	308030	TIV	505632	TROTROCT TORE	F2504640
04261	2	00001	4	04260		110	CUREC1	ACTHAL DRIM ADDRESSA	F2504650
04262	. 0	62100	0	04327		SIA	SUBEST	CODY CUR. COMPINATION	F2504660
04263	0	46000	0	04327		LUA	SOBEST	UP1 10 C1 AND C2.	F2504600
04264	0	70000	0	03636		CPY	WKKSC	T AND 2 DIM CYTD WOS.	F2504610
04265	-3	00002	2	04267		IXL	3U0U4U1212	WHE TO CA.	F2504600
04266	0	70000	0	03642	cupo.c	CPY	WKNOC+4	MD2 10 C1.	F2504700
04267	0	70000	0	03637	SUB040	CPY	WKK5C+1	TOTAL CYTO WAS ALAST.	F2504700
04270	-3	00001	2	04275		IXL	SUBUCU \$ 2 \$ 1	LUIMAS ONIT WUD 4909/4	F2504710
04271	0	70000	0	03641		CPY	WKKSC+3	TAND 2 DIM CHID WD 4	F 2504 / 20
04272	-3	00002	2	04274		IXL	5080509292	T WANT C DIM SKIE AN DO	F & 204 F 20 F 2604 740
04273	0	70000	0	03643		CPY	WKKSC+5	WUO IS SSO	F2504 (40 F2504 750
04274	0	70000	0	03644	SUB050	CPY	WKKSC+6	MAIL 12 DIMENSIONS	F 2504 /50
04275	0	70000	0	04327	SUB060	CPY	SUBES1	CHECK SUM INTO SUBEST.	F 2 2 0 4 7 6 0
04276	-0	53400	4	04324		LXD	SUBORG • 4	COMPUTE CHECK SUM.	F2504770
04277	-0	50000	0	03636		CAL	WRKSC	TAU TABLE CHIRTS ***********************************	r 2504780

	04300 0 36100 4 03645	SUB070 ACL	WRKSC+7,4		F2504790
	04301 2 00001 4 04300	TIX	SUB070,4,1	3 ATTEMPTS ARE MADE	F2504800
	04302 0 60200 0 04330	SIW	SUBES2	TO READ SC CORRECTLY.	F2504810
	04303 0 50000 0 04330	CLA	SUBES2	IF ERROR STILL PRESENT,	F2504820
	04304 0 40200 0 04327	SUB	SUBES1	COMPLETE ROUTINE + RETURN -	F2504830
	04305 0 10000 0 04310	TZE	SUB075	CHECK SUMS AGREE, TRA.	F2504840
	04306 2 00001 1 04241	TIX	SUB010+1+1	ERROR. TRY UP TO 5 TIMES.	F2504850
	04307 0 07400 4 00004	TSX	DIAG • 4	DRUM 4 READING ERROR 5 TIMES.	F2504860
	04310 -0 53400 4 04325	SUBO75 LXD	SUBORG+1.4	REARRANGE C1+C2+D1+ AND D2+	F2504870
	04311 0 50000 4 03645	SUBORO CLA	WRKSC+7.4		F2504880
	04312 0 73400 2 00000	PAX	0,2	C2 INTO XB.	F2504890
	04313 -0 32000 0 05142	ΔΝΔ	DECMSK		F2504900
	04314 0 60100 4 03645	STO	DECMSK WRKSC+7,4	WD1 DECREMENT IS C1)	F2504910
	04315 -0 75400 2 00000	PXD	0•2	WD7 DECREMENT IS D1.	F2504920
	04316 -2 00006 4 04321	TNY	SUB090 • 4 • 6		F2504930
	04317 0 60100 0 03640	570	WRKSC+2		F2504940
	04320 -3 00000 0 04311	CHRASE TY	SUBOBOAO		F2504950
D	04321 0 60100 0 03645	CUBOOD STO	WDV CC+7	WOR DECREMENT IS DO.	F2504960
			SUB085 • 4	DESTORE LINKAGE INDEX.	F2504970
	04322 -0 53400 4 04320		1.4	RESTORE ETHRAGE TABEAT	F2504980
	04323 0 02000 4 00001	SUBTOO TRA	200006001256	DECREMENT IS 4. ADD. IS OPG. TAILS.	F2504990
	04324 +000006001356		000006001356	DECREMENT IS 7. ADD. IS OPG. TALLS	F2505000
	04325 +000007000454		000007000454	DECREMENT IS 0. ADD. IS ORG. TALL	F2505000
	04326 +000010000000		000010000000	3 ATTEMPTS ARE MADE TO READ SC CORRECTLY. IF ERROR STILL PRESENT, COMPLETE ROUTINE, RETURN. CHECK SUMS AGREE, TRA. ERROR, TRY UP TO 5 TIMES. DRUM 4 READING ERROR 5 TIMES. REARRANGE C1,C2,D1, AND D2. C2 INTO XB. WD1 DECREMENT IS C1) WD7 DECREMENT IS D1. WD8 DECREMENT IS D1. DECREMENT IS 6, ADD. IS ORG. TAU3. DECREMENT IS 7, ADD. IS ORG. TAU2 DECREMENT IS 8, ADD. IS ORG. TAU1	F2505010
A	04327 0 00000 0 00000	SUBEST HIR			F2505030
A	04330 0 00000 0 00000				F2505040
	04331 0 00000 0 00000	SUBTAG		**************************************	
			LUCU ASSIGNS A REI	ATTYE LOCATION TINSTRUCTION NUMBERTY AND OF	F2505000
			DATES A COUNTER PO	JR THE NEXT ASSIGNMENTS	F2505010
	04332 0 50000 0 05222	LOCO CLA	FOCIND	LOCATION ALDEADY ACCIGNED	F2505000
	04333 0 10000 2 00001	IZE	192	LUCATION ALREADT ASSIGNED	F2505070
	04334 0 50000 0 05133	CLA	L(U)	IF LOCIND GREATER	F2505100
	04335 0 60100 0 05222	\$10	LOCIND	TO 7500	F2505110
	04336 0 50000 0 05176	CLA	CILOO	IU ZEKU	F2505120
	04337 -0 10000 2 00001	TNZ	1,2	IF CILOU HAS NOT BEEN	F2505130
	04340 0 50000 0 05244	CLA	VCTR		F 2505 140
	04341 0 60100 0 05176	STO	CIL00	UPDATE VCTR.	F2505150
	04342 0 40000 0 05110	ADD	L(8)	·	72505160
	04343 0 60100 0 05244	STO	VCTR		F2505170
	04344 0 02000 2 00001	TRA	1,2	LATIVE LOCATION (INSTRUCTION NUMBER), AND UPOR THE NEXT ASSIGNMENT. LOCATION ALREADY ASSIGNED. IF LOCIND GREATER TO ZERO. IF CILOO HAS NOT BEEN UPDATE VCTR. START COMPARING BUFFER	F2505180
			****	*************	FF 2505 190
			CIT ENTERS A COMP	ILED INSTRUCTION INTO THE COMPILED INSTRUCT	172505200
			ION BUFFER. IF TH	HE BUFFER IS FULL, CITSP (WHICH IS PART OF	F 2505 210
			CIT) WRITES IT ON	TO TAPE 3.	F2505220
	04345 -0 63400 1 05174	CIT SXD	E2C,1	SIZE TO CURRENT WORD COUNT.	F2505230
	04346 -0 63400 2 05175	SXD	E3C+2		F2505240
	04347 0 07400 2 04332	TSX	LOCO • 2		F2505250
	04350 -0 53400 2 05173	LXD	BBOX • 2	COMP OF CURRENT WORD COUNT.	F2505260
	04351 3 77634 2 04362	TXH	CIT04,2,-100	IF BUFFER INITIALLY	F2505270
	04352 -0 53400 2 05173		BBOX • 2		F2505280
	04353 -3 00000 2 04362		CIT04,2,0	WRITE	F2505290
	04354 0 76600 0 00223		147	BUFFER	F2505300
	04355 0 53400 1 05133		L(0) +1	ON TAPE 3.	F2505310
	04356 0 70000 1 00030		CIB,1	SIZE TO CURRENT WORD COUNT. COMP OF CURRENT WORD COUNT. IF BUFFER INITIALLY WRITE BUFFER ON TAPE 3. COPY LOOP.	F2505320
	U.320 U.0000 I 00000		_		

7.2

					04040		TV1	CIT02,1,-1		F2505330
	04357	÷	77777	Ţ	04360	CITAR	101	CIT03,2,1	DROP WORD COUNTA	F2505340
	04360	1	00001	4	04301	CITOZ	LAN	CITO1+2+1	TEST FOR RUFFER DNFA	F2505350
	04361	3	00001	-	04320	CITOS	IAR	CIT01,2,1	PROCEED TO NEW	F2505360
	04362	U	53400	1	05130	CITO4	LXA	671.0014.1	INCT INTO DIECED	F2505270
	04363	0	50000	1	05202	C1105	CLA	CIL00+4+1	INST INTO BUFFERS	F2505310
			60100					CIB+2	KEED HOOD COUNT HODATED	F2505300
	04365	1	77777	2	04366			CIT07+2+-1	KEEP WORD COUNT OPDATED.	F2505400
							TIX	CIT05,1,1	ALUE CURRENT UR CT	F2505400
			63400					BBOX • 2	SAVE CURRENT WD CT.	F2505410
	04370	-0	53400	1	05174			E2C+1		F 2505420
	04371	-0	53400	2	05175		LXD	E3C+2		F 2505430
			02000				TRA	1,4		F2505440
,								*****	DROP WORD COUNT. TEST FOR BUFFER DNE. PROCEED TO NEW INST INTO BUFFER. KEEP WORD COUNT UPDATED. SAVE CURRENT WD CT.	F2505450
	04373	-0	53400	1	03647	SCLMN1	LXD	TAG2•1	S1 INDEX QUANTITY.	F2505470
	04374	-0	53400	2	03650		LXD	TAG2+1,2	S2 INDEX QUANTITY.	F2505480
	04375	-0	63400	2	04376		SXD	SCLMN2 • 2	THIS ROUTINE	F2505490
D.	04376	3	00000	ī	04400	SCLMN2	TXH	SCLMN3 •1	COMPARES SIZES	F2505500
U	04377	-6	53400	ī	04376	0.22	LXD	SCLMN2 • 1	OF THE INDEX	F2505510
	04400	-0	53400	ŝ	03651	SCL MN3	LXD	TAG2+2+2	QUANTITIES OF	F2505520
	04400	-0	63400	2	04402	00-1111	SXD	SCLMN4 • 2	EACH SUBSCRIPT IN A TAG.	F2505530
D .	04401	2	00000	ī	04404	SCI MN4	TXH	SCLMN5 • 1	LARGEST 2.X. QUANTITY	F2505540
	04402	-0	53400	;	04402	OCE III	IXD	SCLMN4+1	IS FOUND AND LEFT IN	F2505550
	04404	-0	75400	i	00000	SCLMNS	PXD	0.1	ACC FOR COMPARISON WITH DOIND.	F2505560
	04404	_0	02000	4	00000	002	TRA	1.4	, and the second	F2505570
	04405	·	02000	7	00001			****	HE INNERMOST DOTAG CONTROLLING A GIVEN TAG. S1 INDEX QUANTITY. S2 INDEX QUANTITY. THIS ROUTINE COMPARES SIZES OF THE INDEX QUANTITIES OF EACH SUBSCRIPT IN A TAG. LARGEST 2.X. QUANTITY IS FOUND AND LEFT IN ACC FOR COMPARISON WITH DOIND.	F2505580
								TELC MONITORS THE	COMPUTING OF THE LOAD PORTION OF THE TEST	F2505590
					•			DECREMENT.		F2505600
	04406	^	53400	1	05121	TELC	iγΔ	L(3) +1		F2505610
	04406	0	50000	•	05131	122		L(0)		F2505620
	04410	•	40100	\sim	A5245		STO	EPTXO1		F2505630
	04410		60100	0	05245		CVD		*	F2505640
	04411	0	63400	4	00250	TEL COE	CLA	LINKC,4 TAG2+3,1 0,2	SECHENCE. PUT S IN YR TO PREPARE	F2505650
	04412	0	20000	7	03032	IELCOS	CEM	0.3	FOR CALL POLITINE.	E2505660
	04413	-0	13400	~	00000		TUI	TELC10-2,2,0	NO C. GO TO NEYT C.	F2505670
			00000					[ELC10-29290	SEQUENCE. PUT S IN XB TO PREPARE FOR CN11J ROUTINE. NO S. GO TO NEXT S. COMPUTE (CN1-1) IJ ETC.	F2505670 F2505680 F2505690
			07400					CN1IJ,4	COMPOSE (CNI-1713 ESC.	F2505400
٠.,	04416						AUU	ERTX01 ERTX01	/C1N1 \+/C2N1-1\D1+/C2N1-1\D1D2	F2505090
	04417	0	60100	0	05245		510	ERIXUI	(C1N1)+(C2N1-1)D1+(C3N1-1)D1D2. GO TO NEXT S FOR CN1IJ ROUTINE.	F2505700
						TELC10	IIX		GO TO NEXT S FOR CHILD ROUTINES	F2505710
		_	53400					LINKC +4		F2505720
	04422	0	02000	4	00001		TRA			F2505730

								CNITY COMPUTES THE	E LOAD VALUE FOR A GIVEN SUBSCRIPT IN A	F2505750
								SUBSCRIPT COMBINA	TION. (C1N1-1), OR (C2N1-1)D1	F2505760
								(C3N1-1)D1D2.	No. 1070 NO.	F2505770
							LDQ	DOTAGZ+2+2	NZ INIO MQ.	F2505780
			76300				LLS	18	CO OD CO TRANSFER	F2505790
	04425	-3	00002	1	04431			CN11J2,1,2	SZ UR SS	F2505800
			20000					WRKSC	51)	F2505810
			40200					L(2)		F2505820
	04430	.0	02000	0	04445			CN1IJ8		F2505830
	04431	-3	00001	1	04437			CN11J4,1,1	DIVIDE BY 2 AND RETURN.	F2505840
			20000					WRKSC+2	\$2	F2505850
	04433	0	40200	0	05127		SUB	L(2)	TION. (CINI-1), OR (C2NI-1)D1 N2 INTO MQ. S2 OR S3, TRANSFER. S1, DIVIDE BY 2 AND RETURN. S2 COMPUTE	F2505860

									•	
	04434	. 0	76500	0	00022		LRS	18	(2C2N1-2)D1D2 THEN	F2505870
	04435	Ó	20000	0	03644		MPY	WRKSC+6	GO TO CNIIJ8 TO DIVIDE	F2505880
	04436	0	02000	0	04445			CN1IJ8	(2C2N1~2)D1D2 THEN GO TO CN1IJ8 TO DIVIDE BY 2 AND RETURN. \$3. COMPUTE (2C3N1-2)D1D2 THEN GO TO CN1IJ8 TO DIVIDE DIVIDE BY 2 AND RETURN.	F2505890
	04437	0	20000	0	03642	CN1IJ4	MPY	WRKSC+4	\$3,	F2505900
4. 1	04440				05127		SUB	L(2)	COMPUTE	F2505910
	04441	_			00022			18	(2C3N1-2)D1D2 THEN	F2505920
	04442							WRKSC+6	GO TO CN11J8 TO DIVIDE	F2505930
	04443				00022		LRS	18	DIVIDE BY 2 AND	F2505940
	04444	ň	20000	ŏ	03645			WRKSC+7	RETURN.	F2505950
	04445	×	77100	٥	00001	CNITIE		1	DIVIDE BY 2. RESULT IS (C1N1-1)	F2505960
					00001		TPA	1,4	OR (C2N1-1)D1 OR (C3N1-1)D1D2.	F2505970
	04446	U	02000	4	00001		INA	*******	****	
									X. WHEN THE ROUTINE CXIJ+2 IS CALLED.	F2505990
									BEING WHATEVER PARAMETER IS LEFT IN THE AC	
									BEING WHATEVER PARAMETER 13 LEFT IN THE AC	F2506010
				_		~~ ·	<i></i>	BY THE CALLER		F2506010
	•				01103	CXIJ		DOTAGZ+5,2	TOOLATE V QUANTITY	F2506020
	04450								ISOLATE X QUANTITY.	
					05247			ERTX03		F2506040
	04452				04455			CXIJ+6+1+1	\$2 OR \$1.	F2506050
	04453	0	56000	0	03642			WRKSC+4	S3: LOAD C3.	F2506060
					04461			CXI J2		F2506070
					04460			CXIJ1+1+2	\$2•	F2506080
	04456	0	56000	0	03636			WRKSC	S1, LOAD C1.	F2506090
	04457	0	02000	0	04461			CXIJ2		F2506100
	04460	0	56000	0	03640	CXIJI	LDQ	WRKSC+2	S2. LOAD C2.	F2506110
,	04461	. 0	20000	0	05247	CXIJ2	MPY	ERTX03		F2506120
	04462				04470		TXH	CXIJ4,1,2	IF S1. FINISHED.	F2506130
	04463	0	76500	0	00022		LRS	18		F2506140
	04464	0	20000	0	03644		MPY	WRKSC+6	CX TIMES DI.	F2506150
	04465	3	00001	1	04470		TXH	CXIJ4,1,1	IF S2. FINISHED.	F2506160
	04466	0	76500	0	00022		LRS	18		F2506170
	04467	0	20000	0	03645		MPY	WRKSC+7	CXD1 TIMES D2.	F2506180
	04470					CXIJ4	LLS	17	Section 1985	F2506190
	04471				00001		TRA	1,4	IN ACC. AND RETURN.	F2506200
	• • • • •		••••	•				*******	S3, LOAD C3. S2. S1, LOAD C1. S2, LOAD C2. IF S1, FINISHED. CX TIMES D1. IF S2, FINISHED. CXD1 TIMES D2. IN ACC. AND RETURN.	*F2506210
									SXD INSTRUCTION WHERE THE ADDRESS IS NOT YE	
								KNOWN, BUT IS KNOW	WN TO BE THE TEST FOR A GIVEN DO. THE	F2506230
								ADDRESS WORD IS FI	ILLED IN WITH THAT DOTAG ALPHA-BETA AND THE	F2506240
									D IS STORED IN THAT DOTAG SO THAT A TABLE	
								(SXDTX) MAY BE MAD	DE FOR REFERENCE BY SECTION 3 TO FILL IN THE	EF2506260
								PROPER ADDRESS DUF	RING MERGE.	F2506270
	04472	-0	63400	4	05245	CSXD	SXD	ERTX01+4	ROUTINE FOR	F2506280
					06224			CILV.4	COMPILING AN	F2506290
					05133				SXD INSTRUCTION	F2506300
			60100				STO	L(0) CIL03	WHERE THE	F2506310
					05200			CILO2		F2506320
					05250				·	
					04503			CSXD4,4,2	BLOCKS BACA	F2506340
	04500	-2	53/00	٨.	03650			TAG21,4	BLOCKS D.F. LOAD S2 INDEX.	F2506350
М								CSXD4+1	ARACIA 6141 RAUR AT SUREILE	F2506360
	04502	0	62000		04504	CENDA	IXD	TAG2 • 4	BLOCKS B.C. BLOCKS D.E. LOAD S2 INDEX. BLOCKS B.C. LOAD S1 INDEX. FOR BLOCKS B.C. FILL IN SYMBOLIC ADDRESS OF SXD FROM WD1 OF S1 DOTAG.	F2506370
	04503	-0	23400	4	01074	COADA	CLA	DOTAGZ • 4	FOR RIOCKS BACA FILL IN	F2506380
	04504	- 0	22000	4	01076			NOPRET	SYMBOLIC ADDRESS OF SXD	F2506390
	04505	-0	32000	0	05011			CLIOS	FROM WD1 OF S1 DOTAG.	F2506400
	04506	0	90100	O	05200		210	CIL02	I WOLL MAT OF 2T PAINOR	1 2700400

A.CO. 0 E0000 0 03653	CLA TAG3	NOT KNOWN.	F2506410
04507 0 50000 0 03652	STA CILO3		F2506420
04510 0 62100 0 05201	CLA L(SXD)		F2506430
04511 0 50000 0 05045	STO CILOI		F2506440
04512 0 60100 0 05177			F2506450
04513 0 07400 4 04345	TSX CIT+4		F2506460
04514 -0 53400 4 05245	LXD ERTX01+4	•	F2506470
04515 0 02000 4 00001	TRA 1,4	*************************************	
	****	**************************************	F2506490
	ADTGSE FINDS A VA	ALID DRMTG (ADTAG) ENTRY FOR CONSIDERATION	F2506500
	AND SPREADS IT IN	NTO WORKING TAG (WRKSC).	F2506500
04516 -0 53400 1 05237 ADTGSE	LXD XTG+1		F2506510
04517 1 77774 1 04520 ADTGS	TXI ADTGS+1,1,-4		F 2506520
04520 -0 63400 1 05237	SXD XTG+1		F2506530
04521 3 00000 1 04523 ADTGS1	TXH ADTGS5+1		F2506540
0.500 0.00000 6.00001	TRA 194	END OF TABLE.	F2506550
04522 0 50000 1 03466 ADTGS5	CLA ADTGMX • 1	COMPARE ADTG DDA WITH	F2506560
04523	ANA DECMSK	DOTAG A AND B UNTIL	F2506570
04525 0 34000 0 05224	CAS A	WE FIND AN ADTAG	F2506580
04526 0 02000 0 04531	TRA ADTGS4	MODIFIED BY A DO THAT	F2506590
04526 0 02000 0 04531	TRA ADTGS4	IS WITHIN THE RANGE	F2506600
04527 0 02000 0 04531	TRA ADTGS	OF THE CURRENT DO	F2506610
04530 0 02000 0 04517	CAS B	!	F2506620
04531 0 34000 0 05225 ADTGS4	TRA ADTGS	NOT IN PANGE SELECT NEXT.	F2506630
04532 0 02000 0 04517	TEX DIAG.	FOLIAL LTV IMPOSSIBLE	F2506640
04533 0 07400 4 00004	TSX DIAG,4	IN DANGE, EILI	F2506650
04534 0 50000 1 03466	CLA ADTGMX+1	OUT HODVING TAG-	F2506660
04535 -0 73400 2 00000	PDX 0+2	DDA IN TAGE DECREMENT	F2506670
04536 -0 63400 2 03646	SXD TAG1.2	DDA IN TAGI DECREMENTS	F2506610
04537 0 73400 2 00000	PAX 0+2		F2506600
04540 -0 63400 2 03647	SXD TAG2.2	SI INDEX IN TAGE	F2506690
04541 0 50000 1 03467	CLA ADTGMX+1+1		F 2506700
04542 -0 73400 2 00000	PDX 0+2		F2506710
04543 -0 63400 2 03650	SXD TAG2+1.2	S2 INDEX IN TAG2+1.	F 2506720
04544 0 73400 2 00000	PAX 0+2		F2506730
04545 -0 63400 2 03651	SXD TAG2+2,2	S3 INDEX IN TAG2+2.	F2506740
04546 0 50000 1 03470	CLA ADTGMX+2+1		F2506750
04547 0 60100 0 03652	STO TAG3	TAG NAME IN TAG3.	F2506760
04550 0 50000 1 03471	CLA ADTGMX+3+1		F2506770
04551 0 60100 0 03653	STO TAG4	ADTG WD4 IN TAG4.	F2506780
04552 0 53400 2 05126 ADTGS8	IXA L(1) •2	INIT FOR POSING.	F2506790
04553 0 50000 2 03652	CLA TAG2+3+2		F2506800
04554 0 40200 0 05230	SUB DOIND TZE 2,4	END OF TABLE. COMPARE ADTG DDA WITH DOTAG A AND B UNTIL WE FIND AN ADTAG MODIFIED BY A DO THAT IS WITHIN THE RANGE OF THE CURRENT DO NOT IN RANGE, SELECT NEXT. EQUALITY IMPOSSIBLE. IN RANGE, FILL OUT WORKING TAG. DDA IN TAG1 DECREMENT. S1 INDEX IN TAG2. S2 INDEX IN TAG2+1. S3 INDEX IN TAG2+2. TAG NAME IN TAG3. ADTG WD4 IN TAG4. INIT FOR POSING. TEST FOR MODIFICATION. PROPER ENTRY FOUND. NOT MOD BY DO, TAKE NEXT SUBSCRIPT. ADTG NOT MOD BY DO, TAKE NEXT ADTG.	F2506810
	TZE 2,4	PROPER ENTRY FOUND.	F2506820
	TXH ADTGS+2+2	NOT MOD BY DO. TAKE NEXT SUBSCRIPT.	F2506830
04556 3 00002 2 04517	TXI ADTGS8+1,2,1	ADTG NOT MOD BY DO. TAKE NEXT ADTG.	F2506840
04557 1 00001 2 04553	*********	*********	*F2506850
	MICTET TOOLATES V	ARIABLE N1 BITS FOR A TAG AND ORS THEM TO	LF2506860
	LAST 3 BITS OF TH		F2506870
		IL HOND HEODA	F2506880
04560 0 50000 0 03653 N1STET	CLA TAG4	ONE DIT	F2506890
04561 0 77100 0 00003	ARS 3 ANA L(7)	ONE BIT IS STORED IN NISBX. A CONATAINS PASIND.	F2506900
04562 -0 32000 0 05076	ANA L(/)	19 STOKEN TH MISDY	F2506910
04563 0 76700 0 00003	ALS 3		
04564 0 60100 0 05254	STO NISBX		F2506920
04565 0 53400 1 05131 04566 0 50000 1 03652 N1S02	LXA L(3) +1	. courties oderes	F2506980
04566 0 50000 1 03652 N1S02	CLA TAG2+3,1	A CONATAINS PUSIND.	F2506990
		1	

									•	
	04567	-0	73400	2	00000		PDX	0,2		F2507000
D	04570	-3	00000	2	04576		TXL	N1S05+2	NO TAG FOR THIS POS.	F2507010
•	04571	Ō	50000	2	01076		CLA	DOTAGZ +2	ISOLATE	F2507020
	04572	0	77100	0	00017		ARS	15	VARIABLE	F2507030
	04573	-0	32000	0	05130		ANA	Ĺ(4)	N1	F2507040
	04574	Õ	77100	ì	00003		ARS	3.1	BIT.	F2507050
	04575	-0	60200	ō	05254		ORS	N1SBX	OR NIBIT TO NISBX.	F2507060
	04576	2	00001	ĭ	04566	N1.S05	TIX	N1502+1+1	REPEAT FOR NEXT RIGHT S.	F2507070
	04577	5	50000	ñ	05254		CLA	NISBX		F2507080
	04511	ŏ	02000	4	00001		TRA	1.4		F2507090
	04000	·	02000	•	00001		.,,,	****	NO TAG FOR THIS POS. ISOLATE VARIABLE N1 BIT. OR N1BIT TO N1SBX. REPEAT FOR NEXT RIGHT S. ***********************************	*F2507100
								FIXCON SCANS THE	FIXCON DRUM TABLE FOR A DESIRED SYMBOL FOR	AF2507110
		-						FIXED POINT CONST	FIXCON DRUM TABLE FOR A DESIRED SYMBOL FOR ANT. IF THE DESIRED FIXCON IS NOT THERE A FOR IT AND AN ENTRY IS MADE.	SF2507120
								SYMBOL IS CREATED	FOR IT AND AN ENTRY IS MADE.	F2507130
	06601	-0	63400	1	04634	FIXCON	SXD	FC29 • 1	SAVE	F2507140
	04601	-0	63400	2	04624		SXD	FC18+2	INDEX	F2507150
	04602	-0	63400	4	04636		SXD	FC34.4	REGISTERS.	F2507160
	04605	-0	40100	7	06243		STO	FRDRM1		F2507170
М	04604	~	60100	7	05133		IXA	1 (5) 44		F2507180
	04605		50000	7	05152	ECO2	CLA	ORIGIN	FIXCON TABLE ORIGINA	F2507190
	04606	ŏ	10100	٥	05214	FCUZ	STO	AD1	TACON TABLE ON TOTHE	F2507200
	04607	Ŏ	60100	٦	05122		310	1.701-1	INITIALIZE WORD COUNT TEST INDICATOR	F2507210
	04610	Ŏ	53400	Ţ	05133		LAA	1 /21 -2	INITIALIZE INDICATOR FOR TWO PASSES.	F2507220
	04611	ū	53400	~	05141	EC04	CLA	EDDOM1	COMPARISON WORD IN ACCUMULATOR.	F2507230
M	04612	0	20000	0	00243	FC04	DDS	104	FIYON TARIF	F2507240
	04613	Ū	16200	ō	00302		KD3	474 401	ON DRIM 3.	F2507250
	04614	Ö	46000	ŏ	05214	FC00	CDY	CDVWD1	ENTRY FROM TARIFA	F2507260
	04615	. 0	70000	Ü	05241	FC08	TVU	CC26+1-1	DECREMENT CONTAINS WORD COUNT.	F2507270
D	04616	3	00000	I	04627		CDV	CDVUD3	CHECK CHW.	F2507280
	04617	Ü	70000	0	05242		CPI	CF1WD2	ENTRY LECE THAN COMPARISON WORD.	F2507290
	04620	0	04000	Ü	04635		ILU	FC30	CVID EVEN ENTRIES END OND DASS.	F2507300
	04621	0	70000	0	05246		CAT	CDYUDO	COMPARE ENTRY WITH COMPARISON WORD.	F2507310
	04622	0	34000	0	05242		CAS	CFTWD2	TI CONTACT THE DATE.	F2507320
	04623	0	07400	. 4	00004		153	D1AG94	FOUNTTY CEADOU FADED.	F2507320
D	04624	-3	00000	0	04662	FC18	IXL	FC60+0	CVID EVEN ENTRIES FOR AND DASS.	F2507340
	0,4625	0	70000	0	05246	FC20	CPT	ERDRM	DIMP HODD COUNT TECT INDICATOR	F2507350
	04626	1	00002	1	04615	FC24	IXI	FCU8,1,2	TEST FOR PASS CONDITION	F2507360
	04627	-2	00001	2	04637		INX	FC409291	THITTE OF CONDITIONS	F2507370
	04630	0	50000	Ū	05214		CLA	AUI	ADDDECC FOR SHO PACC	F2507380
	04631	0	40000	0	05127		ADD	L(2)	ADDRESS FOR ZND FASS	F2507300
	04632	0	60100	0	05214		510	AD1	(EVEN ENIKIES)	F2507400
	04633	0	53400	1	05126	FC28	LXA	L(1) •1	SEI ENIKT NUMBER FOR SECOND PASS	F2507400
D	04634	-3	00000	0	04612	FC29	TXL	FC04+0	RETURN TO FCU4 FOR SECOND PASS.	F2507410
	04635	0	70000	0	05246	FC30	CPY	ERDRM		F2507420
D	04636	-3	00000	0	04625	FC34	TXL	FC20+0	CEARCH ENDER ENTRY NOT FOUND	F2507450
	04637	0	60100	0	05241	FC40	STO	CPYWD1	SEARCH ENDED, ENTRY NOT FOUND.	F2507440
	04640	-0	53400	1	04616		LXD	FC08+1+1	FIXCON DRUM TABLE FOR A DESIRED SYMBOL FOR ANT. IF THE DESIRED FIXCON IS NOT THERE A FOR IT AND AN ENTRY IS MADE. SAVE INDEX REGISTERS. FIXCON TABLE ORIGIN. INITIALIZE WORD COUNT TEST INDICATOR. INITIALIZE INDICATOR FOR TWO PASSES. COMPARISON WORD IN ACCUMULATOR. FIXCON TABLE ON DRUM 3. ENTRY FROM TABLE. DECREMENT CONTAINS WORD COUNT. CHECK SUM. ENTRY LESS THAN COMPARISON WORD. SKIP EVEN ENTRIES FOR 2ND PASS. COMPARE ENTRY WITH COMPARISON WORD. TLOOBVIATES THIS PATH. EQUALITY SEARCH ENDED. SKIP EVEN ENTRIES FOR 2ND PASS. BUMP WORD COUNT TEST INDICATOR TEST FOR PASS CONDITION. INITIALIZE ORIGIN DRUM ADDRESS FOR 2ND PASS (EVEN ENTRIES) SET ENTRY NUMBER FOR SECOND PASS. SEARCH ENDED, ENTRY NOT FOUND. WORD COUNT. NEW TEST VALUE (WORD COUNT). WORD COUNT PLUS ORIGIN EQUALS NEW ADDRESS FOR DRUM WRITING. SELECT DRUM AND	F2507450
	04641	1	00001	1	04642		IXI	FC42,1,1	WORD COUNTS	F2507460
	04642	-0	63400	1	04616	FC42	SXD	FC08+1•1	NEW TEST VALUE (WORD COUNT).	F2507470
	04643	-0	75400	1	00000		PXD	0+1	WORD COUNT	F2507480
	04644	0	77100	0	00021		ARS	17	PLUS	F 250 7490
	04645	. 0	40000	0	04667		ADD	ORIGIN	ORIGIN EQUALS	F 250 7500
	04646	0	60100	0	05214		STO	AD1 .	NEW ADDRESS FOR DRUM WRITING.	F 2507510
	04647	0	76600	0	00302		WRS	194	SELECT	F 2507520
	04650	0	46000	0	05214		LDA	AD1	DRUM AND	F2507530

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F2507540
                            CPY CPYWD1
                                                 WRITE NEW CONSTANT
      0 70000 0 05241
04651
                                                 AND CHECK SUM ON DRUM.
                                                                                           F2507550
                            CPY CPYWD1
04652
      0 70000 0 05241
04653 -0 75400 1 00000 FC50
                            PXD 0+1
                                                 PLACE NAME OF CONSTANT
                                                                                           F2507560
                                                  IN ACCUMULATOR, RESTORE X REGISTERS,
                                                                                           F2507570
04654 0 77100 0 00022
                            ARS 18
                            ORA BCD2
                                                 AND RETURN
                                                                                           F2507580
04655 -0 50100 0 05101
                                                 TO
                                                                                           F2507590
04656 -0 53400 1 04634
                            LXD FC29 1
                                                                                           F2507600
                            LXD FC18,2
                                                 MAIN
04657 -0 53400 2 04624
                                                                                           F2507610
                            LXD FC34,4
04660 -0 53400 4 04636
                                                                                           F2507620
04661 0 02000 4 00001
                            TRA 1,4
                                                 ROUTINE.
                                                 TEST DRUM READING.
                                                                                           F2507630
04662  0 50000  0 05241 FC60
                            CLA CPYWD1
                            SUB CPYWD2
                                                                                           F2507640
04663 0 40200 0 05242
                                                 DRUM READ CORRECTLY.
RETURN FOR 1ST PASS.
                                                                                           F2507650
                            TZE FC50
04664 0 10000 0 04653
                            TIX FC02,4,1
                                                                                           F2507660
      2 00001 4 04606
04665
04666 0 07400 4 00004 STOPFC TSX DIAG,4
                                                 DRUM 4 READING ERROR 5 TIMES.
                                                                                           F2507670
04667 0 00000 0 00002 ORIGIN HTR 2
                                                                                           F2507680
                                OP2 IS CALLED BY THE ALPHA STATE TO TEST FOR OPTIMIZATION IN F2507700
                                THE COMILATION OF LOAD VALUE COMPUTATION. IT OPTIMIZES WHEN F2507710
                                (CN1-1)=0 OR IS COMPUTABLE AT EXECUTIVE TIME.
                                                                                           F2507720
                                                                                           F2507730
04670 0 50000 4 77776 OP2
                            CLA 32766,4
                                                 LINKAGE.
                                                                                           F2507740
                            STA RETURN
04671 0 62100 0 04740
                            CLA TAG2+3.1
                                                 IF S IS NOT
                                                                                           F2507750
04672 0 50000 1 03652
                            PDX 0:2
                                                 DEFINED BY A DO.
                                                                                           F2507760
04673 -0 73400 2 00000
                                                                                           F2507770
04674 3 00000 2 04676
                            TXH OP2P,2,0
                                                                                           F2507780
                            TRA 1,4
04675 0 02000 4 00001
                            CLA DOTAGZ+2,2 IF NOT DEFINED BY
04676 0 50000 2 01100 OP2P
                                                                                           F2507790
                            ANA GONES
                                                                                           F2507800
04677 -0 32000 0 05104
                            TNZ 1,4
04700 -0 10000 4 00001
                                                 RETURN TO MAIN ROUTINE.
                                                                                           F2507810
                                                 IF CONSTANT, COMPUTE
                                                                                           F2507820
04701 0 50000 2 01100
                            CLA DOTAGZ+2,2
04702 0 07400 4 04423
                            TSX CN1IJ,4
                                                                                           F2507830
                                                 RETURN AND CONSIDER S2.
                                                                                           F2507840
04703 0 10000 0 04740
                            TZE RETURN
                                                 OTHERWISE COMPUTE
                                                                                           F2507850
04704 0 76700 0 00022
                            ALS 18
                            TXL 0P2P1+1+2
                                                                                           F2507860
04705 -3 00002 1 04707
                                                                                           F2507870
04706 0 40000 0 05061
                            ADD LIDEC
                                                 TO (CN1-1).
                                                                                           F2507880
04707 0 07400 4 04601 OP2P1 TSX FIXCON:4
                            TXL 0P2P2+1+2
                                                                                           F2507890
04710 -3 00002 1 04713
                                                                                           F2507900
                            STO ORO00+1
04711 0 60100 0 07567
                            TIX AC050,1,1
                                                                                           F2507910
04712 2 00001 1 05517
04713 0 73400 1 00000 OP2P2 PAX 0+1
                                                                                           F2507920
                                                 ASSIGN FIXCON SYMBOL.
                                                                                           F2507930
                            ANA 60NES
04714 -0 32000 0 05104
04715 0 60100 0 05200
                            STO CILO2
                                                 CHECK SUBSCRIPT. IF
                                                                                          F2507940
                                                                                          F2507950
                            PXD 0+1
                                                 S1. TRA RETURN (3RD). OTHERWISE
04716 -0 75400 1 00000
                            STO CILO3
                                               COMPILE ADD L(SYMBOL).
                                                                                          F2507960
04717 0 60100 0 05201
04720 0 50000 0 05054
                            CLA L(ADD)
                                                 STO 1)+3.
                                                                                          F2507970
                            STO CILO1
                                                                                           F2507980
04721 0 60100 0 05177
                                                                                          F2507990
04722 0 50000 0 05133
                            CLA L(0)
                                                                                          F2508000
04723 0 60100 0 05176
                            STO CILOO
                            LXD BBOX • 1
                                                                                          F2508010
04724 -0 53400 1 05173
                                                                                          F2508020
04725 1 00004 1 04726
                            TXI OP24,1,4
04726 -0 63400 1 05173 OP24
                            SXD BBOX 1
                                                                                          F2508030
04727 0 07400 4 04345
                            TSX CIT+4
                                                                                          F2508040
                                                                                          F2508050
                            CLA L(STO)
04730 0 50000 0 05044
04731 0 60100 0 05177
                            STO CILOI
                                                                                          F2508060
                                                                                          F2508070
                            CLA L3DEC
04732 0 50000 0 05075
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04733 0 60100 0 0		CILO3		F2508080
04734 0 50000 0 0	7620 CL/	OR000+26		F2508090
04735 -0 32000 0 0		60NES		F2508100
04736 0 60100 0 0		CILO2		F2508110
04737 0 07400 4 0	4345 TS)	CIT+4		F2508120
	0000 RETURN TRA	. 0	ADDRESS MODIFIED.	F2508130
,		******	**************************************	
		OP3 TESTS FOR VA	RIABLE NS AND IF CONSTANT COMPILES A	F2508150
•		CLA L(N2-N1), OR	IF VARIABLE CLA L(N2) SUBL(N1) .	F2508160
04741 -0 63400 4 0		EROP3,4		F2508170
04742 0 50000 2 0		DOTAGZ + 2	ARE ALL	F2508180
04743 0 77100 0 0	0017 ARS	5 1 5	N PARAMETERS	F2508190
04744 -0 32000 0 0	5076 ANA	L(7)	CONSTANT.	F2508200
04745 -0 10000 0 0	4766 TNZ	OP31	NO, OP31.	F2508210
04746 0 50000 2 0	1101 CLA	DOTAGZ+3+2	YES,	F2508220
04747 0 40200 2 0	1100 SUE	DOTAGZ+2+2	FORM '	F2508230
04750 0 76700 0 0	0022 ALS	18	N2-N1.	F2508240
04751 0 07400 4 04		FIXCON+4	OBTAIN FIXCON SYMBOL	F2508250
04752 0 73400 4 00	0000 PA	0,4	COMPILE	F2508260
04753 -0 32000 0 0		60NES	CLA	F2508270
04754 0 60100 0 0		CILO2	L(N2-N1)	F2508280
04755 -0 75400 4 00	0000 PX	0 9 4	AND	F2508290
04756 0 60100 0 0		CILO3	RETURN	F2508300
04757 0 50000 0 0	5053 CLA	L-L(CLA)	TO	F2508310
04760 0 60100 0 0	5177 STC	CIL01	THE	F2508320
04761 0 50000 0 0	5133 CLA	k. L(0)	CALLER.	F2508330
04762 0 60100 0 0	5176 STC	CILOO	ZERO LOCATION.	F2508340
04763 0 07400 4 0	4345 TSX	CIT,4		F2508350
04764 -0 53400 4 0	5040 LXE	EROP3:4		F2508360
04765 0 02000 4 0	0001 TRA	194		F2508370
04766 0 77100 0 0	0001 OP31 ARS	• 1		F2508380
04767 0 76000 0 0				F2508390
04770 0 02000 0 04		OP32		F2508400
04771 0 50000 2 0		DOTAGZ+3,2	N2 VARIABLE.	F2508410
04772 0 60100 0 0		CILO2	COMPILE	F2508420
04773 0 50000 0 0		L(0)	CLA L(N2).	F2508430
04774 0 60100 0 0		CIL03		F2508440
04775 0 02000 0 0		OP33		F2508450
04776 0 50000 2 0		DOTAGZ+3+2	•	F2508460
04777 0 76700 0 0		18		F2508470
05000 0 07400 4 04		FIXCON•4		F2508480
05001 0 73400 4 0		0•4		F2508490
05002 -0 32000 0 0	,	60NES	·	F2508500
05003 0 60100 0 0	5200 510	CILO2		F2508510
05004 -0 75400 4 0		0,4	·	F2508520
05005 0 60100 0 0		CILO3		F2508530
05006 0 50000 0 0		L(0)		F2508540
05007 0 60100 0 0		CIL00		F2508550
05010 0 50000 0 0		L(CLA)		F2508560
05011 0 60100 0 0		CIL01		F2508570
05012 0 07400 4 0		CIT+4		F2508580
05013 0 50000 2 0	10,0	DOTAGZ + 2		F2508590
05014 0 77100 0 0		. 17	,	F2508600
05015 0 76000 0 0	0001 LBT			F2508610

SOLIC 0 02000 0 05024 TRA OP34 F2508620 F2508620 F2508620 F2508620 F2508620 F2508620 F2508620 F2508620 F250820										
S5000		05016								
SOUTH COMPILE F2508650		05017	0 50000 2 01100		CLA	DOTAGZ+2•2				
Description Computer Comput		05020	0 60100 0 05200		STO	CIL02	PREPARE TO		F2508640	
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05103	-300000077777	TIMSK (OCT	700000077777		F2509160
	-370000000000	60NES	OCT	770000000000		F2509170
05105	+007777000000	TETMSK (OCT	007777000000		F2509180
05106	0 00000 0 00006	L(6)		6		F2509190
05107	0 00000 0 00030	L(24)		24		F2509200
05110	0 00000 0 00010	L(8)		8		F2509210
05111	+000000000010	L(K1) (OCT	10		F2509220
	+000004000000	L4DEC (OCT	000004000000		F2509230
05113	0 00000 0 03636	INST20		ADTGA		F2509240
05114	0 00000 0 02646			MXTGA		F2509250
05115	0 00000 0 05673	INST24		RTX160		F2509260
05116	0 00000 0 05716			RTX184		F2509270
05117	0 00000 0 06204	INST30		RTX264		F2509280
05120	0 00000 0 06065			RTX226		F2509290
05121	0 00000 0 01240			672		F2509300
05122	0 00000 0 00310	LMXTGA		200	•	F2509310
	+37777777777	ALLONE (OCT	377777777777		F2509320
05124	0 00000 0 00144	LZEKMX		100		F2509330
05125	0 00000 0 00620			400	•	F2509340
05126	0 00000 0 00001	,		1		F2509350
05127	0 00000 0 00002			2		F2509360
05130	0 00000 0 00004			4	•	F2509370
05131	0 00000 0 00003			3		F2509380
05132	0 00000 0 00005			5	•	F2509390
05132	0 00000 0 00000			ō		F2509400
05134	0 00000 0 00012			10		F2509410
05135	0 00000 0 00020			16		F2509420
•	2 00000 0 00000		PTW			F2509430
05136 05137	1 00000 0 00000		PON			F2509440
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05141	+002000000000 +000000077777	BITS C	ост	77777		F2509450 F2509460
05141 05142	+002000000000 +000000077777 +077777000000	BITS C ADMSK C DECMSK C	ост			F2509450 F2509460 F2509470
05141 05142 05143	+002000000000 +000000077777 +077777000000 0 00000 0 00000	BITS C ADMSK C DECMSK C SMSK	OCT OCT	77777 077777000000		F2509450 F2509460 F2509470 F2509480
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05141 05142 05143 05144 05145	+002000000000 +00000077777 +077777000000 0 00000 0 00000 +000000000760 +000000000774	BIT8 C ADMSK C DECMSK C SMSK SMSK1 C SMSK2 C	OCT OCT OCT	77777 0777777000000 760 774		F2509450 F2509460 F2509470 F2509480 F2509490 F2509500
05141 05142 05143 05144 05145 05146	+00200000000 +00000077777 +077777000000 0 00000 0 00000 +000000000760 +000000000774 +000000000763	BIT8 CADMSK CADMSK CAMSK	OCT OCT OCT OCT	77777 077777000000 760 774 763		F2509450 F2509460 F2509470 F2509480 F2509490 F2509500 F2509510
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05141 05142 05143 05144 05145 05146 05147	+002000000000 +00000077777 +077777000000 0 00000 0 00000 +000000000760 +000000000774 +000000000773 +00000000020	BIT8 (ADMSK (DECMSK (SMSK (SMSK1 (SMSK2 (SMSK3 (SMSK4 (BITMSK (OCT OCT OCT OCT OCT OCT	77777 077777000000 760 774 763 773 20		F2509450 F2509460 F2509470 F2509480 F2509490 F2509500 F2509510 F2509520 F2509530
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05141 05142 05143 05144 05145 05146 05147 05150 05151 05152 05153 05154	+002000000000 +00000077777 +077777000000 0 00000 0 00000 +000000000774 +000000000773 +000000000773 +000000000000000000000000000000000000	BIT8 ADMSK DECMSK SMSK SMSK1 SMSK2 SMSK3 SMSK4 BITMSK OPMSK 11BITS BIT20	OCT OCT OCT OCT OCT OCT OCT OCT OCT	77777 077777000000 760 774 763 773 20 10 74030 3777 100000		F2509450 F2509460 F2509470 F2509480 F2509490 F2509500 F2509510 F2509520 F2509530 F2509550 F2509550 F2509550
05141 05142 05143 05144 05145 05146 05147 05150 05151 05152 05153 05154 05155	+002000000000 +00000077777 +077777000000 0 00000 0 00000 +000000000774 +000000000773 +000000000000000000000000000000000000	BIT8 ADMSK DECMSK SMSK SMSK1 SMSK2 SMSK3 SMSK4 BITMSK OPMSK 11BITS BIT20 360NES	OCT OCT OCT OCT OCT OCT OCT OCT OCT OCT	77777 077777000000 760 774 763 773 20 10 74030 3777 100000 7777777777		F2509450 F2509460 F2509470 F2509480 F2509500 F2509510 F2509520 F2509530 F2509540 F2509550 F2509560 F2509570 F2509580
05141 05142 05143 05144 05145 05146 05147 05150 05151 05152 05153 05154 05155	+002000000000 +00000077777 +077777000000 0 00000 0 00000 +000000000760 +000000000774 +000000000773 +00000000000000000000 +000000000010 +0000000003777 +000000100000 -37777777777777 0 53400 1 05130	BIT8 ADMSK DECMSK SMSK SMSK1 SMSK2 SMSK3 SMSK3 SMSK4 BITMSK OPMSK 11BITS BIT20 36ONES INST2	OCT OCT OCT OCT OCT OCT OCT OCT OCT OCT	77777 077777000000 760 774 763 773 20 10 74030 3777 100000 77777777777		F2509450 F2509460 F2509470 F2509480 F2509500 F2509510 F2509520 F2509530 F2509540 F2509550 F2509560 F2509570 F2509580 F2509590
05141 05142 05143 05144 05145 05146 05147 05150 05151 05152 05153 05154 05155 05156	+002000000000 +00000077777 +077777000000 0 00000 0 00000 +000000000760 +000000000774 +000000000773 +000000000020 +00000000010 +00000000010 +000000003777 +0000000000000 -377777777777 0 53400 1 05130 0 53400 1 05127	BIT8 ADMSK DECMSK SMSK SMSK1 SMSK2 SMSK3 SMSK3 SMSK4 BITMSK OPMSK 11BITS BIT20 36ONES INST2 INST3	OCT OCT OCT OCT OCT OCT OCT OCT OCT OCT	77777 077777000000 760 774 763 773 20 10 74030 3777 100000 77777777777 L(4):1 L(2):1		F2509450 F2509460 F2509470 F2509480 F2509500 F2509510 F2509520 F2509530 F2509550 F2509550 F2509560 F2509570 F2509580 F2509590 F2509590 F2509590
05141 05142 05143 05144 05145 05146 05147 05150 05151 05152 05153 05154 05155 05156 05157	+002000000000 +00000077777 +077777000000 0 00000 0 00000 +000000000760 +000000000774 +000000000773 +000000000020 +00000000010 +00000000010 +000000003777 +0000000000000 -377777777777 0 53400 1 05130 0 53400 1 05127 0 02000 0 06115	BIT8 ADMSK DECMSK SMSK SMSK1 SMSK2 SMSK3 SMSK3 SMSK4 BITMSK OPMSK CIBITS BIT20 36ONES INST2 INST3 INST4	OCT OCT OCT OCT OCT OCT OCT OCT OCT OCT	77777 077777000000 760 774 763 773 20 10 74030 3777 100000 77777777777 L(4)+1 L(2)+1 AC224		F2509450 F2509460 F2509470 F2509480 F2509500 F2509510 F2509520 F2509530 F2509540 F2509550 F2509570 F2509570 F2509580 F2509590 F2509600 F2509610
05141 05142 05143 05144 05145 05146 05147 05150 05151 05152 05153 05154 05155 05156 05157 05160 05161	+002000000000 +00000077777 +077777000000 0 00000 0 00000 +000000000760 +000000000774 +000000000773 +000000000020 +00000000010 +00000000010 +000000003777 +0000000000000 -37777777777 0 53400 1 05130 0 53400 1 05127 0 02000 0 06115 0 02000 0 06116	BIT8 ADMSK DECMSK SMSK1 SMSK2 SMSK3 SMSK3 SMSK4 BITMSK OPMSK 11BITS BIT20 36ONES INST2 INST3 INST4 INST5	OCT OCT OCT OCT OCT OCT OCT OCT OCT OCT	77777 077777000000 760 774 763 773 20 10 74030 3777 100000 77777777777 L(4) +1 L(2) +1 AC224 AC228		F2509450 F2509460 F2509470 F2509480 F2509500 F2509510 F2509520 F2509530 F2509540 F2509550 F2509560 F2509570 F2509580 F2509580 F2509580 F2509600 F2509600 F2509620
05141 05142 05143 05144 05145 05146 05147 05150 05151 05152 05153 05154 05155 05156 05157 05160 05161	+002000000000 +00000077777 +077777000000 0 00000 0 00000 +00000000760 +00000000774 +000000000773 +000000000020 +00000000010 +000000003777 +00000000000000 -377777777777 0 53400 1 05130 0 53400 1 05127 0 02000 0 06116 0 00000 0 06250	BIT8 ADMSK DECMSK SMSK1 SMSK2 SMSK3 SMSK4 BITMSK OPMSK 11BITS BIT20 360NES 11NST2 INST3 INST4 INST5 INST8	OCT OCT OCT OCT OCT OCT OCT OCT OCT OCT	77777 077777000000 760 774 763 773 20 10 74030 3777 100000 77777777777 L(4) 1 L(2) 1 AC224 AC228 AC244		F2509450 F2509460 F2509470 F2509480 F2509500 F2509510 F2509520 F2509530 F2509540 F2509560 F2509560 F2509570 F2509580 F2509580 F2509600 F2509600 F2509620 F2509630
05141 05142 05143 05144 05145 05146 05147 05150 05151 05152 05153 05155 05155 05156 05161 05162 05163	+0020000000000000000000000000000000000	BIT8 ADMSK DECMSK SMSK1 SMSK2 SMSK2 SMSK3 SMSK4 BITMSK OPMSK 11BITS BIT20 36ONES INST2 INST3 INST4 INST5 INST8 INST10	OCT OCT OCT OCT OCT OCT OCT OCT OCT OCT	77777 077777000000 760 774 763 773 20 10 74030 3777 100000 77777777777 L(4):1 L(2):1 A(2):4 AC224 AC228 AC244 ADTGA		F2509450 F2509460 F2509470 F2509480 F2509500 F2509510 F2509520 F2509530 F2509550 F2509560 F2509570 F2509580 F2509590 F2509600 F2509610 F2509620 F2509630 F2509640
05141 05142 05143 05144 05145 05146 05150 05151 05152 05153 05154 05155 05156 05161 05162 05163 05164	+0020000000000000000000000000000000000	BIT8 ADMSK DECMSK SMSK1 SMSK1 SMSK2 SMSK3 SMSK4 BITMSK OPMSK 11BITS BIT20 36ONES INST2 INST3 INST4 INST5 INST8 INST10 INST11	OCT OCT OCT OCT OCT OCT OCT OCT OCT OCT	77777 077777000000 760 774 763 773 20 10 74030 3777 100000 77777777777 L(4):1 L(2):1 AC224 AC228 AC244 ADTGA AC010		F2509450 F2509460 F2509470 F2509480 F2509500 F2509510 F2509530 F2509530 F2509550 F2509550 F2509550 F2509580 F2509580 F2509600 F2509600 F2509600 F2509600 F2509650
05141 05142 05143 05144 05145 05146 05150 05151 05152 05153 05154 05155 05156 05161 05162 05163 05164 05165	+0020000000000000000000000000000000000	BIT8 ADMSK DECMSK SMSK SMSK1 SMSK2 SMSK3 SMSK4 BITMSK OPMSK 11BITS BIT20 36ONES INST2 INST3 INST4 INST5 INST5 INST5 INST5 INST10 INST11 INST12	OCT OCT OCT OCT OCT OCT OCT OCT OCT OCT	77777 077777000000 760 774 763 773 20 10 74030 3777 100000 77777777777 L(4):1 L(2):1 AC224 AC228 AC244 ADTGA AC010 MXTGA		F2509450 F2509460 F2509470 F2509480 F2509500 F2509510 F2509530 F2509530 F2509550 F2509550 F2509550 F2509560 F2509600 F2509610 F2509610 F2509650 F2509650 F2509650 F2509650 F2509650 F2509660
05141 05142 05143 05144 05145 05146 05150 05151 05152 05153 05154 05155 05160 05161 05162 05163 05164 05165 05165	+0020000000000000000000000000000000000	BIT8 ADMSK DECMSK SMSK SMSK1 SMSK2 SMSK3 SMSK4 BITMSK OPMSK 11BITS BIT20 36ONES INST2 INST3 INST4 INST5 INST5 INST5 INST8 INST10 INST11 INST12 INST13	OCT OCT OCT OCT OCT OCT OCT OCT OCT OCT	77777 077777000000 760 774 763 773 20 10 74030 3777 100000 77777777777 L {4}+1 L (2)+1 AC224 AC228 AC244 AC155		F2509450 F2509460 F2509470 F2509480 F2509500 F2509510 F2509520 F2509550 F2509550 F2509550 F2509560 F2509580 F2509600 F2509610 F2509610 F2509650 F2509650 F2509650 F2509650 F2509650 F2509650 F2509650 F2509650 F2509650
05141 05142 05143 05144 05145 05146 05147 05150 05151 05152 05153 05154 05157 05160 05161 05162 05163 05164 05165	+0020000000000000000000000000000000000	BIT8 ADMSK DECMSK SMSK SMSK1 SMSK2 SMSK3 SMSK4 BITMSK OPMSK 11BITS BIT20 36ONES INST2 INST3 INST4 INST5 INST5 INST5 INST8 INST10 INST11 INST12 INST13	OCT OCT OCT OCT OCT OCT OCT OCT OCT OCT	77777 077777000000 760 774 763 773 20 10 74030 3777 100000 77777777777 L(4) 1 L(2) 1 AC224 AC228 AC244 AC228 AC244 AC155 CIL031 4		F2509450 F2509460 F2509470 F2509480 F2509500 F2509510 F2509530 F2509530 F2509550 F2509550 F2509550 F2509560 F2509600 F2509610 F2509610 F2509650 F2509650 F2509650 F2509650 F2509650 F2509660

05171	+007777000000	6T017	OCT	007777000000		F2509700
05172	+000000007777	24T035	OCT	7777		F2509710
05173	0 00000 0 0000	BBOX	HTR			F2509720
05174	0 00000 0 0000	E2C	HTR		•	F2509730
05175	0 00000 0 0000		HTR			F2509740
4 22.2		CILOO	BSS	1		F2509750
	0517	7 CILO1	BSS	1		F2509760
	0520	CILO2	BSS	1		F2509770
		CILO3	BSS	1		F2509780
		2 ERTGA	BSS	1		F2509790
	0520	3 CHEKSM	BSS	1		F2509800
		4 TETTG				F2509810
		5 SWICH2		1		F2509820
		S ERLXC	BSS			F2509830
	0520	7 AX	BSS	1		F2509840
	•••	RELCO	BSS	1		F2509850
		L WRKTGA		1		F2509860
		2 N3X	BSS			F2509870
	0521		BSS			F2509880
	• • • •	4 AD1	BSS			F2509890
		5 AD2	BSS			F2509900
		ADTGX	BSS			F2509910
		7 WRKRXT	BSS	1		F2509920
	0522	TETTGX	BSS	ī		F2509930
		RTXTGX				F2509940
		LOCIND				F2509950
		ERORBX				F2509960
	0522		BSS		•	F2509970
	0522		BSS	ī		F2509980
	•	SWICH	BSS	1		F2509990
: -		7 TEBBOX		1		F2510000
		DOIND				F2510010
		DOIND1		1		F2510020
٠.		2 TEABOX				F2510030
		SWICH1				F2510040
		4 NSIND				F2510050
		5 N1N2N3		1		F2510060
		LINKC	BSS			F2510070
		7 XTG	BSS	1		F2510080
		POSIND	BSS	ī		F2510090
-		ER40	BSS			F2510100
		2 ER41	BSS	1		F2510110
	•••	3 ARG	BSS	1		F2510120
	•••	4 VCTR	BSS			F2510130
		ERTX01	BSS	1		F2510140
*		ERTX02				F2510150
	• • •	7 ERTXO3				F2510160
		BLKNUM				F2510170
	0525	SXDTXZ	BSS	1		F2510180
		OREDO	BSS			F2510190
		DEFDO	BSS	·		F2510200
•		4 NISBX	BSS			F2510210
		TETLOC		1		F2510220
				~ ************************************	******	*F2510230

								BEGIN BETA STA	GE		F2510240
										CALLED BY MAN TO COMPUTE AND COMPILE	F2510250
								INCREMENTING,	TEST	TING, AND RESETTING INSTRUCTIONS FOR A GIVE	F2510260
						_		DO.		VARIABLE CTR. LAST BETA. NEW DO ALPHA BETA WORD OF DO. PLACE B IN X. IS THIS THE FIRST BETA. FIRST B. SET VCTR AND INITIALIZE CIL BUFFER TO ALL ONES. USE SPECIAL CIT ENTRY. INITIALIZE THE TEST TAG INDEX FOR THIS DO TO ZERO. ISOLATE N3 BIT OF DOTAG STORE FIRST TTG FOR TX CYCLE. ENTRY THAT LIES BETWEEN A AND B END OF DO, START DMTG CYCLE. SC MODIFIED BY DO, STORE. PLACE TEST BITS IN TAG WORD. ROUTINE THE BLOCK INDICATION IS IN XB. BLOCK F, NO INSTRUCTIONS, GET NEW TAG. BLOCK DIFFERENT FROM A OR F.	F2510270
	05256	-0	63400	4	05325	RTX	SXD	RTX024,4		WARTANIE ETC. LAGT DETA	F2510280
	05257	-0	53400	1	05244		LXD	VCIR+1		VARIABLE CIR. LASI BEIA.	F2510290
	05260	-0	53400	2	05230		LXD	DOIND 12		NEW DU	F2510300
	05261	0	50000	. 2	01076		CLA	DOTAGZ \$2		ALPHA BETA WORD OF DO.	L5210310
	05262	0	73400	2	00000		PAX	012		PLACE B IN X.	F2510220
	05263	-0	63400	2	05264	DTVA	3 8 0	R1AU492		IS THIS THE EIRST DETA.	F2510330
,	05264	~ 0	35400	1	05216	KIXU4	IVE	N 1 AU 2 9 1		15 INIS INC FIRST DEIAS	F2510340
	05265	-0	15400	~	05111		ADD	1/11		FIDST R. CFT	F2510360
	05200	0	40000	٥	05244		STO	VCTR		VCTR AND	F2510370
	05201	ŏ	50000	٥	05177		CLA	ALLONE		INITIALIZE	F2510380
	05270	ŏ	60100	~	05176		STO	CILOR		CIL BUFFFR	F2510390
	05272	ő	60100	ŏ	05177		STO	CILOI		TO ALL ONES.	F2510400
	05273	ő	60100	ŏ	05200		STO	CIL02			F2510410
	05274	ŏ	60100	õ	05201		STO	CILO3			F2510420
	05275	ŏ	07400	4	04352		TSX	CITSP,4		USE SPECIAL CIT ENTRY.	F2510430
	05276	ŏ	50000	Ó	05133	RTX05	CLA	L(0)		INITIALIZE THE TEST TAG	F2510440
	05277	ō	60100	ō	05220		STO	TETTGX		INDEX FOR THIS DO TO ZERO.	F2510450
	05300	ŏ	60100	ŏ	05237		STO	XTG			F2510460
	05301	0	60100	Õ	05221		STO	RTXTGX			F2510470
	05302	Õ	60100	Õ	05216		STO	ADTGX			F2510480
	05303	Ö	07400	4	06235		TSX	N3BIT+4		ISOLATE N3 BIT OF DOTAG	F2510490
	05304	Ō	07400	4	04153		TSX	SCAN #4		•	F2510500
	05305	-0	63400	1	05221	RTXIN1	SXD	RTXTGX • 1		STORE FIRST TTG FOR TX CYCLE.	F2510510
	05306	-0	63400	1	05237		SXD	XTG+1		ENTRY THAT LIES BETWEEN A AND B	F2510520
	05307	0	07400	4	04162	RTX06	TSX	FIND 94		·	F2510530
	05310	0	02000	0	05707		TRA	RTX180		END OF DO. START DMTG CYCLE.	F2510540
	05311	-0	63400	1	05237		SXD	XTG,1		SC MODIFIED BY DO, STORE.	F2510550
	05312	0	07400	4	06243		TSX	TETG , 4	1	PLACE TEST BITS IN TAG WORD.	F2510560
	05313	0	07400	4	06277		TSX	PRES • 4	.		F2510570
								AT THE END OF	1412	ROUTINE THE BLOCK INDICATION IS IN XB.	F2510580
	05314	3	00004	2	05673		TXH	R1X1609294	1	BLUCK F# NU INSTRUCTIONS GET NEW TAG.	F2510590
	05315	3	00000	2	05435		TXH	R1X/09290		BLOCK DIFFERENT FROM A UR F.	F2510600
	05316	• •	50000	0	05234		CLA	NJINU DIVIO	1	DECREMENT OF DAM IS MARIABLE	F251061U
	05317	-0	10000	0	05403		INZ	RIXON		DECREMENT OF RAA IS VARIABLE	F2510620
	05320	-0	53400	1	03652	RIXUZU	LXU	DTV50-1-0		TEST FOR INSERTED COUNTED.	F2510630
	05321	3	00000	Ţ	02650		L VU	TAG2		OP PECET TAG.	F2510450
	05322	0	50000	0	03052		LDS	11 ·	•	OR RESEL ING.	F2510660
	05323	0	76000	Ö	00013		LRS	11			F2510670
	05324	- 2	16000	0	06227	PTY024	TXI	PTX30+0	•	RESET	F2510680
,	05325	- 2	00000	٥	05221	KIAU24	TDA	DTY34	·	COUNTER.	F2510690
	05320	ŭ	50000	0	02252	DTY20	CÍA	TAG3		IF RESET TAGA PUT TAG	F2510700
	UD321	-0	32000	0	05152	KINDO	ANA	LIBITS	i	NAME IN ACCUMULATOR AND	F2510710
	05330	-0	02000	0	05334		TRA	RTX51	i	GO TO SUBCOM.	F2510720
	05222	0	07600	4	04230	RTX34	TSX	ENTR+4		IF COUNTER, MAKE	F2510730
	05222	0	02000	0	05337	KINJT	TRA	RTX52		ARTIFICIAL ENTRY IN WRKSC.	F2510740
	05224	-0	75400	1	00000	RTX50	PXD	0.1	. (ROUTINE THE BLOCK INDICATION IS IN XB. BLOCK F, NO INSTRUCTIONS, GET NEW TAG. BLOCK DIFFERENT FROM A OR F. BLOCK EQUALSA. DECREMENT OF RXA IS VARIABLE DECREMENT IS CONSTANT. TEST FOR INSERTED COUNTER. OR RESET TAG. RESET COUNTER. IF RESET TAG, PUT TAG NAME IN ACCUMULATOR AND GO TO SUBCOM. IF COUNTER, MAKE ARTIFICIAL ENTRY IN WRKSC. CURRENT TAG. GET TAG NAME LAY OUT TAU ENTRY.	2510750
	05334	0	77100	ō	00022		ARS	18	. (GET TAG NAME	2510760
	05336	ō	07400	4	04236	RTX51	TSX	SUBCOM,4	1	LAY OUT TAU ENTRY.	2510770
	92330		3, 100	•							

AE222 A EAAAA A AEAA2 BTY52	CLALITYIL	COMPTIF	F2510780
05340 0 60100 0 05042 RIADZ	STO CILOI	TXI	F2510790
65361 0 63600 1 05360	LYA POSINDAI	PREPARE FOR	F2510800
05341 0 53400 1 05240	LYD DOIND 2	EXIT ROUTINE.	F2510810
85342 -0 53400 2 05250	TEV CNST 1.4	POLITINE COMPLITES DECREMENT NAG	F2510820
05343 0 07400 4 06447	ETO EDTVOI	AND CTODES IN EDITION	F2510830
05344 0 60100 0 05245	SIU ERIAUI	AND STORES IN ENTAUL	F2510050
05345 0 53400 1 05240	LXA POSIND 1	TECT 500 000 164T5	F2510040
05346 0 50000 0 03653	CLA TAG4	TEST FOR DUPLICATE	L5210020
05347 0 76500 0 00014	LRS 12	SUBSCRIPTS AND COMPUTE	F2510000
05350 0 76300 1 00004	LLS 4+1	DECREMENT FOR THEM	F2510870
05351 0 76000 0 00001	LBT	TEST ON 51,52, OR S3 FOR DUPES.	F 25 10880
05352 0 02000 0 05376	TRA RTX66	NO DUPLICATES FOR THIS SUBSCRIPT.	F2510890
05353 0 77100 0 00001	ARS 1		F2510900
0 5354 0 76000 0 00001	LBT	TEST FOR S1 OR S2 DUPES.	F2510910
05355 1 00002 1 05367	TXI RTX62+3,1,2	DUPES ARE 1.3 ON TRANSFER.	F2510920
05356 1 00001 1 05357	TXI RTX61+1+1		F2510930
05357 0 60100 0 05246 RTX61	STO ERTXO2	STORE STATUS OF ACCUMULATOR. DUPES ARE	F2510940
05360 0 07400 4 06447	TSX CN3IJ•4	1,2 OR 2,3 OR 1,2,3.	F2510950
05361 0 53400 1 05240	LXA POSIND 1	COMPUTE DECREMENT ADJUSTMENT	F2510960
05362 0 40000 0 05245	ADD ERTXO1	FOR NEXT LEFT SUBSCRIPT.	F2510970
05363 0 60100 0 05245	STO ERTXO1	REPLACE ADJUSTED DECREMENT IN ERTX01.	F2510980
85364 1 00002 1 05365 RTX62	TXI RTX62+1+1+2		F2510990
05365 3 00003 1 05376	TXH RTX66.1.3	NOT 3RD SUBSCRIPT CASE.	F2511000
05366 0 50000 0 05246	CLA ERTXO2	LOW ORDER BIT IS SUBSCRIPT LEFT OF DOSUB.	F2511010
05367 0 77100 0 00001	ARS 1		F2511020
05370 0 76000 0 00001	LBT	TEST FOR S1 DUPE.	F2511030
05371 0 02000 0 05376	TRA RTX66		F2511040
05371 0 02000 0 05570	LYD DOLND 2		F2511050
05372 0 03400 4 04447	TSY CN31 IA4	COMPUTE DECREMENT ADJUSTMENT FOR SI	F2511060
05373 0 07400 4 00447	ADD EDTYO1	IN 1.2.3 AND 1.3 CASES.	F2511070
05574 0 40000 0 05245	STO ERTYOI	EINAL DECREMENT AD HISTMENT.	F2511080
05375 U 6010U U U5245	CLA EDTYO1	THAT DECKEMENT ADDODUMENTS	F2511000
05376 U 50000 U 05245 KIX66	CLA ERIAUI	ACTED DECDEMENT IS COMPUTED. FILL	F2511100
05377 0 62100 0 05177	TEX CILOT	OHT A WORDS OF	F2511110
05400 0 07400 4 06465	15X C1LU2514	COMPTLED INSTRUCTION.P	F2511110
05401 0 07400 4 04345	13A C1194	AND CONTINUE	F2511120
05402 0 02000 0 05413	TEX CILV.	DECREMENT IS VARIABLE. ASSIGN LOCATION.	F2511140
05403 0 07400 4 06224 RIX68	ISA CILVIA	DECREMENT IS VARIABLE ASSIGN LOCATIONS	F2511140
05404 0 50000 0 05176	CLA CILOU	FREPARE VCIR LOCATION	F2511140
05405 -0 32000 0 05141	ANA ADMSK	PUR IGA ROUTINES	F2511100
0540 6 0 07400 4 06476	TSX TGA 4	PLACE LUCATION IN APPENDED TAGTAG WORD	F2511170
05407 0 07400 4 06625	TSX CIL23,4	AND THEN FILL OUT	F251118U
05410 0 50000 0 05042	CLA L(TXI)	REMAINING WORDS OF	F2511190
05411 0 60100 0 05177	STO CILOI	COMPILED INSTRUCTION	F2511200
05412 0 07400 4 04345	TSX CIT+4	COMPILER ROUTINE.	F2511210
05413 0 50000 0 03653 RTX69	CLA TAG4	TEST FOR SYMBOL	F 2511220
05414 0 12000 0 05673	TPL RTX160	INDICATION	F2511230
05415 -0 53400 2 05230	LXD DOIND , 2	FORVAR	F2511240
05416 0 50000 2 01103	CLA DOTAGZ+5,2	OCCURRANCE •	F2511250
05417 -0 32000 0 05136	ANA BIT1		F2511260
05420 0 10000 0 05673	TZE RTX160	NO FORVAR, CONTINUE.	F2511270.
05421 0 50000 0 05133	CLA L(0)	FORVAR EXISTS.	F2511280
05422 0 60100 0 05176	STO CILOO		F2511290
05423 0 50000 0 03652	CLA TAG3	COMPILE	F2511300
05424 -0 32000 0 05141	ANA ADMSK	COMPILE TXI PREPARE FOR EXIT ROUTINE. ROUTINE COMPUTES DECREMENT N3G AND STORES IN ERTXO1. TEST FOR DUPLICATE SUBSCRIPTS AND COMPUTE DECREMENT FOR THEM. TEST ON \$1,52, OR \$3 FOR DUPES. NO DUPLICATES FOR THIS SUBSCRIPT. TEST FOR \$1 OR \$2 DUPES. DUPES ARE 1,3 ON TRANSFER. STORE STATUS OF ACCUMULATOR. DUPES ARE 1,2 OR 2,3 OR 1,2,3. COMPUTE DECREMENT ADJUSTMENT FOR NEXT LEFT SUBSCRIPT. REPLACE ADJUSTED DECREMENT IN ERTXO1. NOT 3RD SUBSCRIPT CASE. LOW ORDER BIT IS SUBSCRIPT LEFT OF DOSUB. TEST FOR \$1 DUPE. COMPUTE DECREMENT ADJUSTMENT FOR \$1 IN 1,2,3 AND 1,3 CASES. FINAL DECREMENT ADJUSTMENT. AFTER DECREMENT IS COMPUTED. FILL OUT 4 WORDS OF COMPILED INSTRUCTION.P AND CONTINUE. DECREMENT IS VARIABLE. ASSIGN LOCATION. PREPARE VCTR LOCATION FOR TGA ROUTINE. PLACE LOCATION IN APPENDED TAGTAG WORD AND THEN FILL OUT REMAINING WORDS OF COMPILED INSTRUCTION COMPILED INSTRUCTION COMPILER ROUTINE. PLACE LOCATION FOR TGA ROUTINE. TEST FOR SYMBOL INDICATION FORVAR. OCCUPRANCE. NO FORVAR, CONTINUE. FORVAR EXISTS.	F2511310
	· '		

			50511000
05425 0 60100 0 05201	STO CILO3	INSTRUCTION	F2511320
05426 0 50000 0 05045	CLA L(SXD)	FOR	F251133U
05427 0 60100 0 05177	STO CILOI	FORVAR OCCURRANCE.	F251154U
05430 -0 53400 2 05230	LXD DOIND + 2		72511350
05431 0 50000 2 01077	CLA DOTAGZ+1+2	PUT FORVAR SUBSCRIPT	F251136U
05432 0 60100 0 05200	STO CILO2	IN RELATIVE ADDRESS	F2511370
05433 0 07400 4 04345	TSX CIT+4	WORD FOR SXD INSTRUCTION.	F2511380
05434 0 02000 0 05673	TRA RTX160		F2511390
05435 3 00001 2 05466 RTX70	TXH RTX90,2,1	BLOCK IS B,C,D OR E.	F2511400
05436 -0 63400 2 05250	SXD BLKNUM+2		F2511410
05437 -0 53400 2 03647	LXD TAG2 • 2	BLOCK B FIRST DETERMINE	F2511420
05440 0 07400 4 06620	TSX NBITS,4	IF DECREMENT IS VARIABLE	F2511430
05441 0 40000 0 05234	ADD N3IND		F2511440
05442 -0 10000 0 05464	TNZ RTX80	DECREMENT IS VARIABLE.	F2511450
05443 0 50000 0 03652	CLA TAG3	DECREMENT IS CONSTANT.	F2511460
05444 0 77100 0 00022	ARS 18		F2511470
05445 0 07400 4 04236	TSX SUBCOM:4	LAY OUT TAU INTO WRKSC.	F2511480
05446 -0 53400 2 05230	LXD DOIND 2	PREPARE FOR	F2511490
05447 0 53400 1 05240	LXA POSIND#1	EXIT ROUTINE.	F2511500
05450 0 07400 4 06447	TSX CN3IJ,4	COMPUTE N3G AND	F2511510
05451 0 60100 0 05245	STO ERTX01	STORE IN ERTXO1.	F2511520
05452 -0 53400 2 03647	LXD TAG2+2		F2511530
05453 0 53400 1 05240	LXA POSIND:1	MOVE POSIND TO LEFT SUB	F2511540
05454 1 00001 1 05455	TXI RTX72,1,1	AND COMPUTE XN3G	F2511550
05455 0 07400 4 04447 RTX72	TSX CXIJ.4	FOR LEFT SUB WHICH IS TEST.	F2511560
05456 0 40200 0 05126	SUB L(1)		F2511570
05457 0 60100 0 05246	STO ERTXO2		F2511580
05460 0 40000 0 05245	ADD ERTX01	ADDN3G FOR THIS SUBSCRIPT	F2511590
05461 0 60100 0 05245	STO ERTXO1	RESULT IS TXI DECREMENT.	F2511600
05462 0 07400 4 06513	TSX EDCB+4	COMPILE TXI SXD TIX.	F2511610
05463 0 02000 0 05673	TRA RTX160	CHECK BEST TEST.	F2511620
05464 0 07400 4 06546 RTX80	TSX BCDE,4	BLOCK B IS VARIABLE.	F2511630
05465 0 02000 0 05673	TRA RTX160		F2511640
05466 3 00002 2 05525 RTX90	TXH RTX110,2,2	BLOCK IS C.D. OR E.	F2511650
05467 -0 63400 2 05250	SXD BLKNUM,2	BLOCK IS C. PUT IN XB.	F2511660
05470 -0 53400 2 03647	LXD TAG2+2	ISOLATE	F2511670
05471 0 07400 4 06620	TSX NBITS:4	NBITS INTO N1N2N3.	F2511680
05472 0 40000 0 05234	ADD N3IND		F2511690
05473 -0 10000 0 05523	TNZ RTX100	DECREMENT IS VARIABLE. TSX BCDE.	F2511700
05474 0 50000 0 03652	CLA TAG3	DECREMENT IS CONSTANT.	F2511710
05475 0 77100 0 00022	ARS 18	LAY OUT TAU	F2511720
05476 0 07400 4 04236	TSX SUBCOM:4	ENTRY INTO WRKSC.	F2511730
05477 -0 53400 2 03647	LXD TAG2+2	COMPUTE	F2511740
05500 0 53400 1 05131	LXA L(3) .1	XN3G-1	F2511750
05501 0 07400 4 04447 RTX91	TSX CXIJ+4	FOR	F2511760
05502 0 40200 0 05126	SUB L(1)	LEFT.	F2511770
05503 0 60100 0 05246	STO ERTX02	SUBSCRIPT.	F2511780
05504 0 53400 1 05240	LXA POSIND 1	THEN COMPUTE N3G	F2511790
05505 0 07400 4 06447	TSX CN3IJ+4	FOR RIGHT	F2511800
05505 0 01400 4 00441 05506 0 60000 0 05246	ADD ERTXO2	SUBSCRIPT.	F2511810
05507 0 60100 0 05245	STO ERTXO1	RESULT IS ERTXO1.	F2511820
05501 0 60100 0 03653	CLA TAG4	INSTRUCTION FOR FORVAR OCCURRANCE. PUT FORVAR SUBSCRIPT IN RELATIVE ADDRESS WORD FOR SXD INSTRUCTION. BLOCK IS B.C.D OR E. BLOCK B FIRST DETERMINE IF DECREMENT IS VARIABLE. DECREMENT IS VARIABLE. DECREMENT IS CONSTANT. LAY OUT TAU INTO WRKSC. PREPARE FOR EXIT ROUTINE. COMPUTE N3G AND STORE IN ERTXO1. MOVE POSIND TO LEFT SUB AND COMPUTE XN3G FOR LEFT SUB WHICH IS TEST. ADDN3G FOR THIS SUBSCRIPT RESULT IS TXI DECREMENT. COMPILE TXI SXD TIX. CHECK BEST TEST. BLOCK IS C.D. OR E. BLOCK IS C.P. PUT IN XB. ISOLATE NBITS INTO NIN2N3. DECREMENT IS VARIABLE. TSX BCDE. DECREMENT IS CONSTANT. LAY OUT TAU ENTRY INTO WRKSC. COMPUTE XN3G-1 FOR LEFT SUBSCRIPT. THEN COMPUTE N3G FOR RIGHT SUBSCRIPT. RESULT IS ERTXO1. TEST FOR DUPES.	F2511830
05511 0 77100 0 00011	ARS 9	TEST FOR DUPES.	F2511840
VEETS 0 76000 0 00011	LBT		F2511850
03315 0 10000 0 00001			

			_				DTYAL	NO DOCUE DUDE.	F2511860
05513	0	02000	Ō	05521		IKA	RIA95	DOCHR IS DUPE.	F2511870
05514	0	53400	1	05240		LXA	PUSINU 9 1	COMPUTE AD HISTMENT	F2511880
05515	1	00001	1	05516		IXI	KINADATAT	EAD DECREMENT AND	F2511890
05516	0	07400	4	06447	RTX93	ISX	CN31J•4	CTOPE IN EDITOR	F2511900
05517	0	40000	0	05245		ADD	ERTX01	STORE IN ERIADIO	F2511010
05520	0	60100	0	05245		STO	ERTX01	XN3G(L) + N3G(R) + N3G(C) - 1)	L5211310
05521	0	07400	4	06513	RTX95	TSX	EDCB • 4	COMPILE TXI SXD TIX.	F2511920
05522	. 0	02000	0	05673		TRA	RTX160		F2511930
05523	0	07400	4	06546	RTX100	TSX	BCDE • 4	BLOCK DECREMENT IS VARIABLE.	F2511940
05524	ō	02000	٥	05673		TRA	RTX160		F2511950
05525	3	00003	ž	05601	RTX110	TXH	RTX140,2,3	D OR E.	F2511960
05526	-0	63400	2	05250		SXD	BLKNUM • 2	STORE BLOCK NUMBER D.	F2511970
05527	-0	53400	2	03650		LXD	TAG2+1 • 2	BLOCK D CONSIDERED.	F2511980
05530	ň	07400	4	06620		TSX	NBITS . 4	ISOLATE NBITS	F2511990
05531	ŏ	40000	^	05224		ADD	NAIND	CHECK FOR VARIABLE DECREMENT.	F2512000
02221	-0	10000	٥	05657		TNZ	RTX130	DECREMENT IS VARIABLE.	F2512010
05552	-0	10000	Š	02211		CLA	TAG2	DECREMENT IS CONSTANT.	F2512020
05533	Ŏ	77100	Š	00002		ADS	10	SET UP TAG	F2512030
05534	Ŏ	77100	ŭ	00022		ANA	118175	NAME AND	F2512040
05535	-0	32000	Ü	05155		TCY	CHOCOM - 4	LAY OUT TAIL ENTRY P	F2512050
05536	0	07400	4	04236		134	TAG2:1:2	CONSIDER CENTER SURSCRIPT	F2512060
05537	-0	53400	2	03650		LXD	1AG2+192	EOD EVIT POUTINE.	F2512070
05540	0	53400	1	05127		LXA	L(2) #1	COMPLITE YNSG FOR	F2512080
05541	0	07400	4	04447		15%	CXIJ#4	CENTED CURCCUIDT.	F2512000
05542	0	60100	0	05246		510	ER I XUZ	DECADE DOCUM SUBSCRIPT	F2512100
05543	0	53400	1	05240		LXA	POSIND 1	PREPARE DUSUB SUBSCRIPT	F2512100
05544	-0	53400	2	05230	•	LXD	DOIND , 2	FOR CN3IJROUTINE.	F251211U
05545	0	07400	4	06447		TSX	CN3IJ,4	COMPUTE N3G FOR	F2512120
05546	0	60100	0	05245		STO	ERTX01	DOSUB SUBSCRIPT.	F2512130
05547	0	50000	0	03653		CLA	TAG4	TEST	F2512140
05550	Õ	77100	٥	00011		ARS	9	FOR	F2512150
05551	-0	32000	ñ	05076		ANA	L(7)	DUPES.	F2512160
05552	ň	10000	ñ	05570		TZE	RTX126	NORMAL BLOCK D. NO DUPES.	F2512170
05552	ň	76000	ň	00001		LBT			F2512180
05555	ŏ	10000	ž	06562		TRA	RTX118	XXO BLOCK D. OR OXX.	F2512190
U DDDD4	ŏ	52400	1	05240		IXA	POSIND • 1	XOX BLOCK D.	F2512200
00000	٠	22400	4	05557		TYI	PTY1144142	SWITCH RIGHT OR LEFT POSIND.	F2512210
05556	Ţ	00002		05551	OTV116	TCV	CNOTIA	COMPLITE NAG	F2512220
05557	0	07400	4	06447	KIVII4	100	EDIVAI	DECREMENT ADJUSTMENT	F2512230
05560	0	40000	0	05245		AUU	ERIAUI	EUD AUX	F2512240
05561	0	60100	0	05245		310	EK I AU I	DIPES	F2512250
05562	0	02000	0	05570		IKA	KIAIZO	COMPUTE YM2G	F2512260
05563	-0	53400	2	03650	RTX118	LXD	1A62+192	COMPUTE ANDU	F2512270
05564	0	53400	1	05131		LXA	L(3) •1	AD HICTMENT	E2512210
05565	0	07400	4	04447	RTX122	TSX	CXIJ94	AUJUS I MEN I	F2512200
05566	0	40000	0	05246		ADD	ERTX02	FUR CENTER	E2512200
05567	0	60100	0	05246		STO	ERTX02	SUBSCRIPIO	F2512300
05570	0	50000	0	05246	RTX126	CLA	ERTX02	SUBI AND	L 1 2 1 7 3 1 0
05571	0	40200	0	05126		S UB	L(1)	ADD ERTXOI	L 2217350
05572	0	60100	0	05246		STO	ERTX02	AND ERTXO2	F2512330
05573	Ö	40000	0	05245		ADD	ERTX01	YIELDING TXI	F2512340
05574	Õ	60100	0	05245		STO	ERTX01	DECREMENT.	F2512350
05575	0	07400	4	06513		TSX	EDCB • 4	COMPILE TXI SXD TIX.	F2512360
05576	Õ	02000	ó	05673		TRA	RTX160	END CHECK FOR TEST TAG.	F2512370
05577	0	07400	4	06546	RTX130	TSX	BCDE • 4	BLOCK D IS VARIABLE.	F2512380
05511	0	02000	7	05673		TRA	RTX160		F2512390
05000	U	02000	J	00015				NO DOSUB DUPE. DOSUB IS DUPE. COMPUTE ADJUSTMENT FOR DECREMENT AND STORE IN ERIXO1. XN3G(L) + N3G(R) + N3G(C) - 1) COMPILE TXI SXD TIX. BLOCK DECREMENT IS VARIABLE. D OR E. STORE BLOCK NUMBER D. BLOCK D CONSIDERED. ISOLATE NBITS CHECK FOR VARIABLE DECREMENT. DECREMENT IS CONSTANT. SET UP TAG NAME AND LAY OUT TAU ENTRY.P CONSIDER CENTER SUBSCRIPT FOR EXIT ROUTINE. COMPUTE XN3G FOR CENTER SUBSCRIPT. PREPARE DOSUB SUBSCRIPT FOR CN31JROUTINE. COMPUTE N3G FOR DOSUB SUBSCRIPT. TEST FOR DUPES. NORMAL BLOCK D. NO DUPES. XXO BLOCK D. SWITCH RIGHT OR LEFT POSIND. COMPUTE N3G DECREMENT ADJUSTMENT FOR XOX DUPES. COMPUTE XN3G DECREMENT ADJUSTMENT FOR COMPUTE XN3G DECREMENT ADJUSTMENT FOR COMPUTE XN3G DECREMENT ADJUSTMENT FOR CENTER SUBSCRIPT. SUB1 AND ADD ERTXO1 AND ERTXO2 YIELDING TXI DECREMENT. COMPILE TXI SXD TIX. END CHECK FOR TEST TAG. BLOCK D IS VARIABLE.	

05601	-0	63400	2	05250	RTX140	SXD	BLKNUM • 2	BLOCK E	F2512400
05602	-0	53400	2	03647		LXD	TAG2 • 2	PUT N BITS FOR SI	F2512410
05603	0	07400	4	06620		TSX	NBITS.4	PLACE N BITS PLUS	F2512420
0 5604	0	40000	0	05234		ADD	N3IND	N3IND FOR SI	F2512430
0 5605	0	60100	0	05245		STO	ERTX01	AND 52 INTO ERTXO1	F2512440
05606	-0	53400	2	03650		LXD	TAG2+1+2	FOR VARIABLE DECREMENT	F2512450
05607	0	07400	4	06620		TSX	NBITS,4	TEST. IF SUM IS NOT ZERO,	F2512460
05610	0	40000	0	05245		ADD	ERTX01	THEN THE DECREMENT IS VARIABLE.	F2512470
05611	-0	10000	0	05644		TNZ	RTX154	DECREMENT IS VARIABLE.	F2512480
05612	0	50000	0	03652		CLA	TAG3	CONSTANT CASE, LAY	F2512490
05613	0	77100	0	00022		ARS	. 18	OUT TAU ENTRY INTO	F2512500
05614	0	07400	4	04236		TSX	SUBCOM:4	WRKSC.	F2512510
05615	-0	53400	2	03650		LXD	TAG2+1 +2	SET UP CENTER SUBSCRIPT	F2512520
05616	0	53400	1	05127		LXA	L(2),1	FOR EXIT ROUTINE.	F2512530
05617	0	07400	4	04447		TSX	CXIJ,4	COMPUTE XN3G FOR CENTER.	F2512540
05620	0	40200	0	05126		SUB	L(1)	STORE SN3G-1	F2512550
05621	0	60100	0	05246		STO	ERTX02	IN ERTXO2.	F2512560
05622	0	53400	1	05240		LXA	POSIND 1	COMPUTE N3G	F2512570
05623	-0	53400	2	05230		LXD	DOIND:2	FOR RIGHT	F2512580
05624	. 0	07400	4	06447		TSX	CN3IJ.4	SUBSCRIPT (DOSUB).	F2512590
05625	Õ	40000	Ó	05246		ADD	ERTX02	PUT FIRST TXI DECREMENT	F2512600
05626	. 0	60100	õ	05245		STO	ERTX01	IN ERTXO1.	F2512610
05627	ñ	07400	4	06513		TSX	EDCB • 4	COMPILES FIRST	F2512620
05630	-0	53400	2	03647		LXD	TAG2.2	THREE OF BLOCK E.	F2512630
05631	. 0	53400	ī	05240		LXA	POSIND+1	COMPUTE XN3G FOR	F2512640
05632	ĭ	00002	ī	05633		TXI	RTX150 • 1 • 2	LEFT SUBSCRIPT.	F2512650
05633	ō	07400	4	04447	RTX150	TSX	CXIJ,4	IN ORDER TO CMPILE 2ND	F2512660
05634	õ	40200	'n	05126		SUB	L(1)	TXI SXD TIX IN	F2512670
05635	័	60100	ŏ	05245		STO	ERTX01	BLOCK E. THE BLOCK	F2512680
05636	ō	60100	õ	05246		STO	ERTX02	NUMBER IS SET TO	F2512690
05637	-0	53400	ĭ	05250		LXD	BLKNUM +4	APPEAR LIKE BLOCK C SO	F2512700
05640	2	00002	4	05641		TIX	RTX152+4+2	THATTHE SXD LOCATION IS STORED	F2512710
05641	~0	63400	4	05250	RTX152	SXD	BLKNUM • 4	PROPERLY INTO DOTAG.	F2512720
05642	0	07400	4	06513	K 1 1 2 2 2	TSX	FDCB+4	COMPILE 2ND TXI SXD TIX.	F2512730
75542	ň	07700	7	05673		TRA	RTX160		F2512740
05666		07400	4	06546	RTX154	TSX	BCDE •4	E IS VARIABLE. THIS TAKES	F2512750
05646	ŏ	07400	7	06224	KIKLD	TSX	CILV.4	CARE OF FIRST 3 INSTRUCTIONS.P	F2512760
05045	- O	07400	4	06625		TSX	C11.23+4	THE REMAINING THREE ARE	F2512770
05040	Š	60000	7	05042		CLA	LITXII		F2512780
05041	ŏ	40100	~	05042		STO	CILOI	NOW COMPILED.	F2512790
02020	ŏ	07400	7	07111		TSX	CITAL	Non Communication	F2512800
02021	-0	52400	- -	05250		IXD	RI KNUM 4	CHANGE BLKNUM	F2512810
U DODZ	-0	22400	7	05250	DTY157	TIX	PTY157.4.2	FROM F	F2512820
05653	- 2	00002	4	05050	KINISI	SAD	RI KNIM 4	TO C AND	F2512830
02624	-0	63400	4	05250		TEV	CEYDA	TSY CSYD.	F2512840
05655	0	07400	4	04472		124	DI KNIM-A	13X CSAVE	F2512850
05656	-0	53400	4	05450		TYT	DENNUM 54 DTV15745 - 4 - 2		F2512840
05657	1	00002	4	05060		IVI	RIAIDITO9494		F2512070
05660	-0	63400	4	05250		SXD	TAGO - 2	PLACE LOCATION OF SYD	F2512010
05661	-0	53400	2	03647		LXU	CILOD	INCIDENCIAN IN PRODED DOTAG ENTRY	F2512000
05662	0	50000	0	05176		CLA	CILOU	AND DOCITION. HEET SHE DOLL	F2512070
05663	-0	32000	0	05141		ANA	AUMSK	BLOCK E PUT N BITS FOR S1 PLACE N BITS PLUS N3IND FOR S1 AND S2 INTO ERTXO1 FOR VARIABLE DECREMENT TEST. IF SUM IS NOT ZERO; THEN THE DECREMENT IS VARIABLE. DECREMENT IS VARIABLE. CONSTANT CASE, LAY OUT TAU ENTRY INTO WRKSC. SET UP CENTER SUBSCRIPT FOR EXIT ROUTINE. COMPUTE XN3G FOR CENTER. STORE SN3G-1 IN ERTXO2. COMPUTE N3G FOR RIGHT SUBSCRIPT (DOSUB). PUT FIRST TXI DECREMENT IN ERTXO1. COMPILES FIRST THREE OF BLOCK E. COMPUTE XN3G FOR LEFT SUBSCRIPT. IN ORDER TO CMPILE 2ND TXI SXD TIX IN BLOCK E, THE BLOCK NUMBER IS SET TO APPEAR LIKE BLOCK C SO THATTHE SXD LOCATION IS STORED PROPERLY INTO DOTAG. COMPILE 2ND TXI SXD TIX. E IS VARIABLE. THIS TAKES CARE OF FIRST 3 INSTRUCTIONS.P THE REMAINING THREE ARE NOW COMPILED. CHANGE BLKNUM FROM E TO C AND TSX CSXD. PLACE LOCATION OF SXD INSTRUCTION IN PROPER DOTAG ENTRY AND POSITION. (LEFT SUB DO).	F2512010
05664	0	76700	0	00014	,	ALS	14 DOTAC716 2	·	E2512020
05665	-0	60200	2	01104		UKS	DUTAGE+012	GENERATE AND	E2512020
05666	0	07400	4	06224		15X	CILV94	GENERALE AND	L 2315A30

									50530010
05667	0	07400	4	06625		TSX	CIL23,4	COMPANY DEMAINING INCIDE	F2512940
05670	0	50000	0	05046		CLA	L(11X)	COMPILE REMAINING INSTRCT	F2512950
05671	0	60100	0	05177		510	CILOI		F2512960
05672	0	07400	4	04345		TSX	CIT,4	PUI INTO BUFFER	F2512970
05673 -	-0	53400	2	05230	RTX160	LXD	DOIND,2	FINDING S.C. WHICH	F2512980
05674	0	50000	2	01106		CLA	DOTAGZ+8,2	HAS AN S THAT IS THE TEST.	F2512990
05675 -	-0	32000	0	05105		ANA	TETMSK		F2513000
05676	0	60100	0	05245		STO	ERTX01	TEST NAME.	F2513010
05677	٥	50000	٥	03652		CLA	TAG3	COMPARE TAG NAME	F2513020
05700	õ	76700	Õ	00022		ALS	18	WITH BEST TEST	F2513030
05700	-0	32000	Õ	05142		ANA	DECMSK	OF CURRENT DO.	F2513040
05702	ñ	40200	ñ	05245		SUB	ERTX01	IF THIS TAG IS	F2513050
05702	_^	10000	ŏ	05706		TNZ	RTX164	BEST TEST,	F2513060
05705	~~	50000	ň	05237		CLA	XTG	STORE ITS INDEX	F2513070
05704	×	40100	Š	05231		STO	TETTGX	IN TETTGX.	F2513080
05705	Š	80100	×	05220	DTY164	TPA	PTX06	GO TO FIND FOR NEXT TAGA	F2513090
05706	ŏ	50000	ž	05501	DTY180	CLA	INST26	RTX184 LOCATION	F2513100
05/0/	Ň	50000	Ň	05110	KIXIOO	STA	DTY60+1	RESET AT END OF ROUTINE	F2513110
05/10	Ŏ	02100	0	05414		1 7 4	1 ADMY A	PREPARE FOR ADTAG TXIA	F2513120
05711	Ü	53400	4	05125		TVI	DIVISOAAAAA	THE ARE THE ABOVE	F2512120
05712	Ţ	00004	4	05/13		EAU	YTG-4		F2513140
05713 -	-0	63400	4	05231		510	INCTO	ADTGA LOCATION.	F2512150
05714	0	50000	0	05113		CLA	TGAS	ADION ECCNITORS	F2512150
05715	0	62100	0	06507	D.T.Y.T.O.4	SIA	ADTOSE . A	SEADON FOR ADTAG.	F2512170
05716	0	07400	4	04516	KIX184	154	AUTOSE 94	END OF TADIE, STADT TY DUACE.	F2512110
05717	0	02000	0	05/45		IKA	KINIYZ	ENTRY FOUND, CONTINUE ARTS CYCLE.	F2513100
05720 -	-0	75400	2	00000		PXU	10	DOCIND IN ADDRESS	F2513170
05721	0	77100	0	00022		ARS	18	POSIND IN ADDRESS.	F2513200
05722	0	60100	0	05240		510	PUSIND	LOOK AT	L5212510
05723	0	50000	0	03653		LLA	1AG4	CARRY RITE	F2513220
. 05724	0	77100	0	00025		ARS	21	CARRY DIES	F251525U
05725	3	00002	2	05732		TXH	RIX190,2,2	SI BLUCK As	F2513240
05726 -	-3	00001	2	05730		TXL	RIX188 92 91	\$3	F2513250
05727	0	77100	0	00002		ARS	2	\$2	F2513260
05730 -	-0	32000	0	05131	RTX188	ANA	L(3)	4. DD. #1 DD. #2 DLOCK F	F2513270
05731 -	-0	10000	0	05716		TNZ	RTX184	CARRY 11 OR 12 BLOCK F.	F2513280
05732	0	50000	0	05234	RTX190	CLA	N3IND	· · · · · · · · · · · · · · · · · · ·	F2513290
05733	0	10000	0	05320		TZE	RTX020	DECREMENT IS CONSTANT.	F2513300
05734	0	07400	4	06224		TSX	CILV,4	DECREMENT IS VARIABLE.	F2513310
05735	0	50000	0	05176		CLA	CIL00	INSTRUCTION IS COMPILED	F2513320
05736 -	-0	32000	٥	05141		ANA	ADMSK	AND ENTRY IS MADE	F2513330
05737	Ŏ.	07400	4	06476		TSX	TGA • 4	IN APPENDED DRM TG WORD.	F2513340
05740	ō	07400	4	06625		TSX	CIL23,4		F2513350
05741	ō	50000	٥	05042		CLA	L(TXI)	COMPILE	F2513360
05742	ō	60100	ō	05177		STO	CIL01	TXI AND PUT	F2513370
05743	ŏ	07400	4	04345		TSX	CIT,4	IN CIB.	F2513380
05744	Õ	02000	0	05716		TRA	RTX184	GET NEW ADTAG.	F2513390
05745	ñ	50000	ō	05115	RTX192	CLA	INST24	RESET MODIFIED	F2513400
05746	Õ	62100	õ	05414		STA	RTX69+1	ADDRESSES FOR	F2513410
05747	0	50000	õ	05114		CLA	INST22	COMPILE REMAINING INSTRC. PUT INTO BUFFER. FINDING S.C. WHICH HAS AN S THAT IS THE TEST. TEST NAME. COMPARE TAG NAME WITH BEST TEST OF CURRENT DO. IF THIS TAG IS BEST TEST, STORE ITS INDEX IN TETIGX. GO TO FIND FOR NEXT TAG. RTX184 LOCATION. RESET AT END OF ROUTINE. PREPARE FOR ADTAG. END OF TABLE, START IX PHASE. ENTRY FOUND, CONTINUE ADTG CYCLE. POSIND IN ADDRESS. LOOK AT CARRY BITS. S1, BLOCK A. S3 S2 CARRY T1 OR T2 BLOCK F. DECREMENT IS CONSTANT. DECREMENT IS VARIABLE. INSTRUCTION IS COMPILED AND ENTRY IS MADE IN APPENDED DRM TG WORD. COMPILE TXI AND PUT IN CIB. GET NEW ADTAG. RESET MODIFIED ADDRESSES FOR TXI CYCLE. DETERMINE IF THIS DO HAS A TEST. THIS DO HAS A TEST. THIS DO HAS A TEST. THIS DO HAS NO TEST. THIS INFORMATION IS ENTERED IN A DRUM TABLE.	F2513420
05750	Ô	62100	õ	06507		STA	TGA8		F2513430
05751 -	-0	53400	ĭ	05220	RTX195	LXD	TETTGX . 1	DETERMINE IF THIS DO HAS A TEST.	F2513440
05751 "	2	00000	î	05770	.,,,,	TXH	RTX197.1.0	THIS DO HAS A TEST.	F2513450
U7/74	٥_	63400	2	05220	RTX196	LXD	DOIND • 2	THIS DO HAS NO TEST. THIS INFORMATION	F2513460
UD 105 -	~	50000	2	01076	1,1,2,0	CLA	DOTAGZ • 2	IS ENTERED IN A DRUM TABLE.	F2513470
U2 (24	U	50000	2	01010		467			

				*		E0510/00
05755 0	76700 0	00004	ALS	4	ELIMINATE BITS	F2513480
05756 0	77100 0	00004	ARS	4	INSERTED BY DOGS.	F2513490
05757 0	60100 0	05251	STO	SXDTXZ	ENTER	F2512510
05760 0	76600 0	00301	WRS	193	DOTAG	F2513510
05761 0	46000 0	05064	LDA	DRADS3	WORD	F2513520
05762 0	70000 0	05251	CPY	SXDTXZ	ONE	F2513530
05763 0	70000 0	05251	CPY	SXDTXZ	INTO	F2513540
05764 0	50000 0	05064	CLA	DRADS3	DOCAR	F2513330
05765 0	40000 0	05127	ADD	L(2)	DRUM	F2512570
05766 0	60100 0	05064	STO	DRADS3	TABLE	F2513570
05767 0	02000 0	06222	TRA	R1X280	CLEAR CENCE LICUTE	F2513500
05770 0	76000 0	00140 R	TX197 PSE	096	CLEAR SENSE LIGHTS	F2513370
05771 0	07400 4	04213	TSX	TGFM • 4	FILL OUI TAG WORDS.	F2513600
05772 0	07400 4	04204	TSX	ISC • 4	FIND DUSUB.	F2512620
05773 0	07400 4	00004	TSX	DIAG,4	SC NO! MODIFIED BY CORRENT DO.	F2513620
05774 -0	75400 2	00000	PXD	0,2	FORM	F2513630
05775 0	77100 0	00022	ARS	18	POSITION	F2513650
05776 0	60100 0	05240	STO	POSIND	INDICATOR.	F2513650
05777 0	.07400 4	06224	TSX	CILV.4	OBTAIN LOCATION FOR TESTS	F2512670
06000 -0	53400 2	05230	LXD	DOIND,2	ISOLATE	L 52130(0
06001 0	07400 4	06620	TSX	NBITS+4	NBITS.	F2513600
06002 0	60100 0	05235	STO	N1N2N3	•	F2513090
06003 0	50000 2	01101	CLA	DOTAGZ+3,2		F2515700
06004 -0	32000 0	05104	ANA	60NES	NO. TO WARTARIE	F2513110
06005 -0	10000 0	06045	TNZ	RTX210	N2 IS VARIABLE	F2513720
06006 0	53400 1	05240	LXA	POSIND 1	TO DOCUTION CO	F2513740
06007 -2	00001 1	06015 R	TX198 TNX	RTX200+1+1	15 POSTITION 53.	F2513740
06010 0	50000 0	03653	CLA	TAG4	CHECK FOR DORC	F2513150
06011 -0	32000 1	05152	ANA	BITMSK+2.1	N1 017	F2512770
06012 0	60100 0	05254	\$10	NISBX	NI BII.	F2512780
06013 0	07400 4	04566	TSX	N1S02,4	THE MADIABLE DECREMENT.	F2512700
06014 -0	10000 0	06045	INZ	R1X210	IXL VARIABLE DECREMENTS	F2512800
06015 -0	53400 1	03652 R	TX200 LXD	TAG3+1		F2513810
06016 3	00000 1	06021	TXH	R1X2019190	NOT NORMAL TAG. LAY OUT CIMILIATED	F2513820
06017 0	07400 4	04230	15%	ENIK 94	TALL ENTRY THTO MERCE.	F2513830
06020 0	02000 0	06024	IRA	RIX202	DDEDADE FOR	F2513840
06021 0	50000 0	03652 R	TX201 CLA	IAGS	CURCON POUTINE	F2513850
06022 0	77100 0	00022	AKS	18	LAY OUT THE ENTRY.	F2513860
06023 0	07400 4	04236	15%	SUBCUM94	DDEDADE EOD AND CALL CYTI	F2513870
06024 -0	53400 2	05230 R	TX202 LXD	DOIND , 2	PREPARE FOR AND CALL CAID	F2513880
06025 0	53400 1	05240	LXA	POSIND 1	DICHAL CALLS TELC POLITINE	F2513890
06026 0	50000 2	01101	CLA	DOTAGZ+392	PICHUS CALLS TELC ROOTTAL	F2513000
06027 0	07400 4	04451	TSX	CXIJ+2,4	·	F2513900
06030 -2	00001 1	06033	TNX	RTX204,1,1	COMPUTES LOAD VALUE FOR	F2513920
06031 0	07400 4	04410	TSX	TELC+2,4	COMPUTES LOAD VALUE FOR	F2513920
06032 0	50000 0	05245	CLA	ERTX01	DEC STORES IN ERIXULE	F2512040
06033 0	60100 0	05177 R	TX204 STO	CILOI	FINAL IXL DECKEMENT	F2512050
06034 -0	50000 0	05047	CAL	L(TXL)		F251272U
06035 -0	60200 0	05177	ORS	CIL01	CHECK TAC MANE IN CILCO	F2512900
06036 0	07400 4	06634	TSX	CILNAM,4	ENTER TAG NAME IN CILUS.	F2512000
06037 0	50000 0	05224	CLA	A	ALPHA PLUS UNE IS	E3E13000
06040 0	40000 0	05061	ADD	LIDEC	ENTERED AS THE SYMBOLIC	F2514000
06041 0	60100 0	05200	STO	CIL02	ADDRESS.	F2514000
06042 0	07400 4	04345	TSX	CIT • 4	ELIMINATE BITS INSERTED BY DOGS. ENTER DOTAG WORD ONE INTO DOCAR DRUM TABLE. CLEAR SENSE LIGHTS. FILL OUT TAG WORDS. FIND DOSUB. SC NOT MODIFIED BY CURRENT DO. FORM POSITION INDICATOR. OBTAIN LOCATION FOR TEST. ISOLATE NBITS. N2 IS VARIABLE IS POSITION S3. CHECK FOR DORC N1 BIT. TXL VARIABLE DECREMENT. NOT NORMAL TAG, LAY OUT SIMULATED TAU ENTRY INTO WRKSC. PREPARE FOR SUBCOM ROUTINE. LAY OUT TAU ENTRY. PREPARE FOR AND CALL CXIJ ROUTINE TO COMPUTE XGN3. PTCHO6 CALLS TELC ROUTINE COMPUTES LOAD VALUE FOR DEC, STORES IN ERTXO1. FINAL TXL DECREMENT. ENTER TAG NAME IN CILO3. ALPHA PLUS ONE IS ENTERED AS THE SYMBOLIC ADDRESS. ENTER TXL IN BUFFER.	F2914010
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06043	0	50000	0	05133		CLA	L(0)	ELIMINATE VARIABLE INDICATOR BIT. COMPILE INSTRUCTION FOR VARIABLE DECREMENT. ENTER TAG NAME. ALPHA PLUS ONE IS ENTERED AS THE SYMBOLIC ADDRESS. ENTER COMPILED TXL IN BUFFER. TEST VARIABLE INDICATOR. ENTERONE IN BIT 20 IF VARIABLE DECREMENT. STORE LOCATION OF TEST. SET SENSE INDICATOR SO START SCAN FOR TIXING. FIND VALID TAG. FILL TAG WORDS. END OF DO. PRESERVE X OF TAG UNDER CONDSIDERATION. COMPARE LARGEST S INDES WITH INDEX OF THE DO. DO IS OUTER, OBTAIN TAG. CURRENT TAG VALID, FILL OUT WRKSC. NEW TAG, DETERMINE IF TAU ENTRY EXISTS. NO.TSX ENTR. YES, TSX SUBCOM. CURRENT TAG VALID. FILL OUT WRKSC AND CONTINUE. ARTIFICIAL WRKSC ENTRY. MOVE RIGHT ONE POSITION. POSITION IS RIGHT, IGNORE CARRY. POSITION IS RIGHT, IGNORE CARRY. POSITION IS RIGHT, IGNORE CARRY. OR IYPE I AND 2 CARRY BITS FOR LEFT AND CENTER POSITIONS. S2 CARRY BIT IN POSITION 35. S3 CARRY BIT IN POSITION 35. S4 CARRY, SEE IF THIS TAG IS BEST TEST. NO, GET NEXT TAG. COMPILE TIX INSTRUCTION.	F2514020 F2514030
06044	Ŭ	02000	ŏ	06022	DTY210	CLA	1 (TYL)	COMPLIE INSTRUCTION FOR VARIABLE DECREMENT	F2514040
06045	Ū	50000	ŭ	05047	KINZIU	CIA	CTI OI	COM TEL THOMACTION TON THE THOMACTION	F2514050
06046	Ŏ	60100	ů	02111		TSY	CTINAMAA	FNTER TAG NAMEA	F2514060
06047	Ō	07400	*	05034			A	ALDHA PLUS ONE IS	F2514070
06050	0.	50000	ŏ	05224		VDD	LIDEC	ENTERED AS THE	F2514080
06051	Û	40000	ŏ	02001		STO	CILO2	SYMBOLIC ADDRESS.	F2514090
06052	Ü	60100	ò	05200		310	CITOL	ENTER COMPLIED TYL IN BUFFER	F2514100
06053	Ū	07400	4	04343		CLA	D: T20	TEST VARIABLE INDICATORA	F2514110
06054	0	50000	ŏ	05154	0.77216	CLA	DOIND - 2	ENTERONE IN RIT 20 IF	F2514120
06055	-0	53400	~	05230	K1X214	CDS	DOTAG7+8-2	VARIABLE DECREMENTA	F2514130
06056	-0	60200	2	01106		CLA	CILOO	STORE LOCATION	F2514140
06057	0	50000	ŏ	05116		ALC	24	OF	F2514150
06060	Ü	16100	Ö	00030		ALS	DOTAG746 • 2	TEST.	F2514160
06061	-0	60200	~	01104		DEE	007	SET SENSE INDICATOR SO	F2514170
06062	Õ	76000	v	00141	DTV222	1 40	DTYTGY A 1	START SCAN FOR TIXING.	F2514180
06063	-0	53400	Ţ	05221	KIAZZZ	EVD	VTG-1	OTAKI SEMI TOK TIMINOV	F2514190
06064	-0	63400	1	05231	077226	TEY	EIND A	FIND VALID TAG. FILL TAG WORDS.	F2514200
06065	. 0	07400	4	04104	KIAZZO	TDA	PTY260	FND OF DO.	F2514210
06066	v	02000	Ÿ	00201		CAU	VTG-1	PRESERVE X OF TAG UNDER CONDSIDERATION.	F2514220
06067	-0	63400	7	00231	DTV228	TEY	SCI MN1 .4	COMPARE LARGEST S INDES	F2514230
06070	Ü	07400	4	04212	KIAZZO	CHR	DOIND	WITH INDEX OF THE DO.	F2514240
06071	Ö	40200	ŏ	05250		17E	DTY234	DO IS OUTER OBTAIN TAGA	F2514250
06072	0	10000	Ö	00144		120	TAG2.2	DO 10 COLLAY COLLAIN LINES	F2514260
06073	-0	53400	2	02022		TYU	PTY229 42 40	CURRENT TAG VALID. FILL OUT WRKSC.	F2514270
06074	2	50000	~	00103		CLA	TAGS	NEW TAGA DETERMINE	F2514280
06075	Ü	22100	Š	00002		ADS	11	IF TAU FNTRY	F2514290
06076	Ü	7/100	9	00013		IRT	**	FXISTSA	F2514300
06077	0	76000	Ž	06110		TDA	PTX229+5	NO TSX ENTR	F2514310
06100	Ō	52000	Ö	00110			TAGS	YES. TSX	F2514320
06101	0	20000	Š	05052		TRA	RTX229+2	SUBCOM	F2514330
06102	0	50000	Š	00100	DTY220	CLA	TAG3	CURRENT TAG	F2514340
06103	0	37100	Š	03032	KINZZZ	ADS	18	VALIDA	F2514350
06104		77100	2	05152		ANA	11RITS	FILL OUT	F2514360
06105	-0	27400	'n	05133		TSY	SUBCOM•4	WRKSC AND	F2514370
06106	Ŏ	01400	7	04230		TRA	RTX230	CONTINUE.	F2514380
06107	v	02000	'n	00111		TSY	FNTR.4	ARTIFICIAL WRKSC ENTRY.	F2514390
06110	v	52400	4.	04230	DTY230	IXA	POSTND • 4	· · · · · · · · · · · · · · · · · · ·	F2514400
00111	9	22400	4	05240	KINESU	TIX	CI A.4.1	MOVE RIGHT ONE POSITION.	F2514410
06112	2	00001	7	06130		TRA	RTX232	POSITION IS RIGHT. IGNORE CARRY.	F2514420
06113	0	50000	ň	03653	CLA	CLA	TAG4	POSITION IS LEFT OR CENTER,	F2514430
06114	Ö	77100	ŏ	000001	CLA	ARS	1	OR TYPE 1 AND 2	F 2514440
06119	-0	50100	ñ	03653		ORA	TAG4	CARRY BITS FOR LEFT	F2514450
06117	-3	00001	· <u>~</u>	06122		TXL	ARS,4,1	AND CENTER POSITIONS.	F2514460
06120	-0	77100	'n	00027		ARS	23	S2 CARRY BIT IN POSITION 35.	F2514470
06120	0	02000	õ	06123		TRA	LBT		F2514480
06122	0	77100	Ô	00025	ARS	ARS	21	S3 CARRY BIT IN POSITION 35	F2514490
06155	0	76000	Õ	00001	LBT	LBT		TEST FOR DOSUB CARRY BIT.	F2514500
06122	0	02000	ň	06130		TRA	RTX232	NO CARRY, CONTINUE.	F2514510
06124	0	50000	Ô	05220		CLA	TETTGX	CARRY, SEE IF THIS	F2514520
06155	0	40200	ŏ	05237		SUB	XTG	TAG IS BEST TEST.	F2514530
06127	-0	10000	õ	06200		TNZ	RTX254	NO. GET NEXT TAG.	F2514540
06127	-0	50000	õ	05046	RTX232	CLA	L(TIX)	COMPILE TIX INSTRUCTION.	F2514550
00130	•	20000	•	92940					

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06131 0	60100	0	05177		STO	CIL01		F2514560
06132	50000	0	05235		CLA	N1N2N3	TEST FOR VARIABLE DECREMENT.	F2514570
06133 0	10000	0	06147		TZE	RTX238	DECREMENT IS CONSTANT.	F2514580
06134 -0	76000	0	00141		MSE	097	DECREMENT IS VARIABLES TURN OFF	F2514590
06135	76100	0	00000		NOP		LIGHT INDICATION FIRST	F2514600
06136	07400	4	06224		TSX	CILV,4	TIX AFTER TXL AND ASSIGN	F2514610
06137	07400	4	06625		TSX	CIL23•4	LOCATION.	F2514620
06140	50000	0	05176		CLA	CIL00	WHEN DECREMENT IS VARIABLE, LOCATION	F2514630
06141 -0	32000	0	05141		ANA	ADMSK	MUST BE STORED IN TGA WORD	F2514640
06142	07400	4	06477		TSX	TGAT • 4	FOR SXD ADDRESS IS OBJECT TIME.	F2514650
06143	02000	0	06177		TRA	RTX250	NOW PERFORM COMPILING.	F2514660
06144	50000	0	05050	RTX234	CLA	L(DED)	COMPILE OF WHICH INDICATES	F2514670
06145	60100	0	05177		STO	CIL01	SC IS DEAD.	F2514680
06146	02000	0	06171		TRA	RTX242	ASSIGN LOCATION IF NECESSARY.	F2514690
06147	53400	1	05240	RTX238	LXA	POSIND 1	DECREMENT IS CONSTANT.	F2514700
06150 -0	53400	2	05230		LXD	DOIND + 2	TEST FOR DUPLICATES	F2514710
06151 0	07400	4	04447		TSX	CXIJ,4	AND COMPUTE ACCORDINGLY.	F2514720
06152	60100	0	05245		STO	ERTX01	XN3G IN ERTXO1.	F2514730
06153	56000	0	03653		LDQ	TAG4	TEST	F2514740
06154	76300	1	00033		LLS	27,1	FOR .	F2514750
06155	76000	0	00001		LBT		DUPES.	F2514760
06156	02000	0	06167		TRA	RTX240	NO DUPES.	F2514770
06157	00001	1	06160	RTX239	TXI	RTX239+1,1,1	DUPES EXIST	F251478U
06160	56000	0	03653		LDQ	TAG4	TEST DUPE	F2514790
06161	76300	1	00033		LLS	27.1	BITS OF POSITIONS	F2514800
06162	76000	0	00001		LBT		TO THE LEFT OF DOSUB	F2514810
06163	02000	0	06157		TRA	RTX239	UNTIL THAT POSITION IS	F2514820
06164	07400	4	04447		TSX	CXIJ•4	IN XA, THEN CALLCXIJ	F2514830
06165	40000	0	05245		ADD	ERTX01	AND COMPUTE AND ADD	F2514840
06166	60100	0	05245		STO	ERTX01	DECREMENT ADJUSTMENT.	F2514850
06167	50000	0	05245	RTX240	CLA	ERTX01	PUT COMPUTED DE EREMIN	F251486U
06170	62100	٥	05177		STA	CIL01	IN CILO1 WORD.	F2514870
06171 -0	76000	0	00141	RTX242	MSE	097	A LOC MUST BE ASSIGNED IF	F251488U
06172	02000	0	06176		TRA	RTX246	THE ASSESSMENT OF A STATE OF THE STATE OF TH	F2514890
06173	07400	4	06224		TSX	CILV+4	THIS IS FIRST TIX AFTER	F2514900
06174	07400	4	06625		TSX	CIL23,4	IEST.	F2514910
06175	02000	0	06177		TRA	RTX250		F2514920
06176	07400	4	06465	RTX246	TSX	CIL023•4		F2514930
06177	07400	4	04345	RTX250	TSX	CIT,4	COMPILE INSI	F2514940
06200	02000	0	06065	RTX254	TRA	RTX226	RETURN FOR NEXT IG.	F2514950
06201	53400	4	05125	RTX260	LXA	LADMX 9 4	START DRMTG SEARCH AND	F2514960
06202	00004	4	06203		TXI	RTX260+2,4,4		F2514910
06203 -0	63400	4	05237		SXD	XTG+4	COMPILING	F251498U
06204	07400	4	04516	RTX264	TSX	ADTGSE • 4	FIND VALID TAG, FILL OUT TAG WDS.	F2514990
06205	02000	0	06216		TRA	RTX270	END OF TABLE	F2515000
06206 -0	75400	2	00000		PXD	0 • 2	STORE POSITION	F251501U
06207	77100	0	00022		ARS	18	OF DOOUB	F2515020
06210	60100	0	05240		STO	POSIND	IN POSINU.	F2515040
06211	50000	0	05117		CLA	INST30	MODIFY TOTO	F2515040
06212	62100	0	06200		STA	RTX254	TIX COMPILING	E3515020
06213	50000	0	05113		CLA	INST20	KOUTINE TO	F2515060
06214	62100	0	06507		STA	TGA8	AND BURGUES	L 75 12 00 0
06215	02000	0	06070		TRA	RTX228	AND EXECUTE.	F2915080
06216	50000	0	05120	RTX270	CLA	INST32	TEST FOR VARIABLE DECREMENT. DECREMENT IS CONSTANT. DECREMENT IS VARIABLES TURN OFF LIGHT INDICATION FIRST TIX AFTER TXL AND ASSIGN LOCATION. WHEN DECREMENT IS VARIABLE, LOCATION MUST BE STORED IN TGA WORD FOR SXD ADDRESS IS OBJECT TIME. NOW PERFORM COMPILING. COMPILE OP WHICH INDICATES SC IS DEAD. ASSIGN LOCATION IF NECESSARY. DECREMENT IS CONSTANT. TEST FOR DUPLICATES AND COMPUTE ACCORDINGLY. XM3G IN ERTXO1. TEST FOR DUPES. NO DUPES. DUPES EXIST TEST DUPE BITS OF POSITIONS TO THE LEFT OF DOSUB UNTIL THAT POSITION IS IN XA, THEN CALLCXIJ AND COMPUTE AND ADD DECREMENT ADJUSTMENT. PUT COMPUTED DE EREMTN IN CILO1 WORD. A LOC MUST BE ASSIGNED IF THIS IS FIRST TIX AFTER TEST. COMPILE INST. RETURN FOR NEXT TG. START DRMTG SEARCH AND COMPILING FIND VALID TAG, FILL OUT TAG WDS. END OF TABLE STORE POSITION OF DOSUB IN POSIND. MODIFY TGTG TIX COMPILING ROUTINE TO AND EXECUTE. ADTG PORTION FINISHED.	L 23120A0

	_		_			C T A	DTV254	PEMODIEY TIX COMPILING	F2515100
06217	ŏ	62100	ŏ	06200		CLA	TNST22	ROUTINE FOR TGTGS.	F2515110
06220	0	50000	ŏ	05114		CLA	TGAR	FND OF RETA CYCLES RETURN TO 1 PLUS	F2515120
06221	Ü	62100	Ö	06201	DTV200	SIA	DTY024.4	LOCATION OF THE INSTRUCTION	F2515130
06222	-0	53400	4	05325	RIAZOU	TOA	1.4	CALLING RIX.	F2515140
06223	0	02000	4	00001		IKA	**************************************	**************************************	*F2515150
							CTIVIC CALLED WHI	REMODIFY TIX COMPILING ROUTINE FOR TGTGS. END OF BETA CYCLES RETURN TO 1 PLUS LOCATION OF THE INSTRUCTION CALLING RTX. ***********************************	MF2515160
							DILED BETA STATE	INSTRUCTION	F2515170
	_		_	25211	c * 1 1/	C1 A	WCTP	THIS POUTINE UPDATES	F2515180
06224	Q	50000	Ū	05244	CILV	CEA	CILOD	VCTP AND	F2515190
06225	0	60100	Õ	05116		310	1 / 0 \	STORE IT INTO CILOO	F2515200
06226	0	40000	0	05110		CTO	L(O)	IT IS CALLED WHEN	F2515210
06227	0	60100	0	05244		310	ACIK	WE NEED A LOCATION	F2515220
06230	-0	32000	0	05141		SUP	MAY! OC	FOR A COMPILED	F2515230
06231	0	40200	0	05060		300 T75	CILVI	INSTRUCTION	F2515240
06232	0	10000	o	06234		704	1.4	THOTROCTIONS	F2515250
06233	0	02000	4	00001	CT1.V1	TEV	DIAGA#	TOO MANY INSTRUCTION NUMBERS.	F2515260
06234	0	07400	4	00004	CILVI	124	***************	EN AN INSTRUCTION NUMBER IS NEEDED FOR A CO INSTRUCTION. THIS ROUTINE UPDATES VCTR AND STORE IT INTO CILOO IT IS CALLED WHEN WE NEED A LOCATION FOR A COMPILED INSTRUCTION. TOO MANY INSTRUCTION NUMBERS.	*F2515270
							NARIT PLACES THE	VARIABLE N3 BIT OF A DO IN THE WORK N3IND.	F2515280
	_		2	05220	MODIT	1 40	DOIND 2	VARIABLE N3 BIT OF A DO IN THE WORK N3IND. THIS ROUTIN E ISOLATES THE N3 BIT SO THAT IT CAN BE EASILY TESTED. RETURN OR WHICH DOS A GIVEN TAG IS A TEST. THIS CORDED IN TAG4. ISOLATE	F2515290
06235	-0	53400	2	03230	MODII	CLA	DOTAG7 • 2	THE N3 BIT SO THAT	F2515300
06236	0	50000	~	01076		ADC	16	IT CAN BE EASILY TESTED.	F2515310
06237	0	771.00	ŏ	00017		ANA	1 (1)	At the bearing and the second	F2515320
06240	-0	32000	0	05120		STO	NAIND		F2515330
06241	Û	90100	ú	00001		TPA	1.4	RETURN	F2515340
06242	Ü	02000	4	00001		1117	TETG DETERMINES FO	OR WHICH DOS A GIVEN TAG IS A TEST. THIS	F2515350
							INFORMATION IS REC	CORDED IN TAG4.	F2515360
			_	A24 E 2	TETG	CLA	TAGS	ISOLATE	F2515370
06243	Ö	50000	ŏ	05052	1510	ANA	ADMSK	TAG NAME.	F2515380
06244	-0	32000	ŏ	05241		STO	FR40		F2515390
06245	0	50100	ō	05241		310 CI A	TAGA	ISOLATE DUPES INDICATORS	F2515400
06246	0	50000	0	03053		ARS	0	,	F2515410
06247	0	77100	0	00011		ANA	1 (7)	IF THERE ARE DUPES	F2515420
06250	-0	32000	Ō	05076		STO	EPA1	THIS INSURES THAT TEST BITS	F2515430
06251	0	60100	0	05242		210	1/1/	ARE ENTERED ONLY FOR	F2515440
06252	0	40200	0	05126		ANG	ED41	RIGHTMOST DUPE.	F2515450
06253	0	32000	0	05242		ANS	1 (2) -1		F2515460
06254	0	53400	Ţ	05131		CLA	TAG2+3.1	SELECT DOTAG WHICH	F2515470
06255	0	50000	1	03002		TZE	TEIG5	CONTROLS THIS	F2515480
06256	0	10000	Ö	00479		DUX	0.2	SUBSCRIPT.	F2515490
06257	-0	73400	2	00000		CLA	DOTAG7+8+2	- Control of the cont	F2515500
06260	0	50000	2	01100		ANA	TETMSK	RETURN OR WHICH DOS A GIVEN TAG IS A TEST. THIS CORDED IN TAG4. ISOLATE TAG NAME. ISOLATE DUPES INDICATORS IF THERE ARE DUPES THIS INSURES THAT TEST BITS ARE ENTERED ONLY FOR RIGHTMOST DUPE. SELECT DOTAG WHICH CONTROLS THIS SUBSCRIPT. ISOLATE TEST NAME OF THIS SUBSCRIPT. DOES TEST NAME EQUAL TAG NAME. NO, GO TO NEXT SUBSCRIPT. TEST NAME EQUALS TAG NAME. SEE IF THIS SUBSCRIPT IS A LEFT DUPE. NOT A LEFT DUPE. ENTER TEST BIT FOR THIS SUBSCRIPT. DEAL WITH NEXT SUBSCRIPT.	F2515510
06261	-0	32000	ò	02102		ADC	18	OF THIS SUBSCRIPT.	F2515520
06262	0	77100	ŏ	00022		AKS	ED4A	DOES TEST NAME EQUAL TAG NAME.	F2515530
06263	Ū	40200	Ŏ	00241		TN7	TETGS	NO. GO TO NEXT SUBSCRIPT.	F2515540
06264	-0	10000	Ŏ	00213		100	F941	TEST NAME EQUALS TAG NAME.	F2515550
06265	0	26000	Ū	00044		115	3641	SEE IF THIS SUBSCRIPT	F2515560
06266	0	76300	Ţ	00044		IRT	JU 7 1	IS A LEFT DUPE.	F2515570
06267	0	76000	Ō	00001		TPA	TETG3	NOT A LEFT DUPE, ENTER TEST BIT.	F2515580
06270	0	02000	ò	06275		TPA	TETG5	LEFT DUPE. IGNORE.	F2515590
06271	Õ	02000	Č	06124	TETGS	CLA	BITI	ENTER TEST BIT	F2515600
.06272	0	20000	٧	00013	16103	ADS	10.1	FOR THIS	F2515610
06273	0	11100	Ţ	00015		OPS	TAG4	SUBSCRIPT.	F2515620
06274	-0	60200	Ö	02023	TETAS	TIY	TETG+10+1+1	DEAL WITH NEXT SUBSCRIPT.	F2515630
06275	2	00001	Ţ	U6222	16.105	117	16101107171	The state of the s	

NUMBER .

F2516170

06354 0 50000 1 06450 SEARCH	CLA RXTA+45+1	·	F2516180
06355 0 77100 0 00003	ARS 3	THIS ROUTINE TAKES	F2516190
06356 0 60100 0 05217	STO WRKRXT	THE ARGUMENT MASK, EDITS	F2516200
06357 0 50000 0 05243	CLA ARG	IT AND THEN SEARCHES	F2516210
06360 -0 32000 0 05143	ANA SMSK	PRESCRIBED BLOCKS OF	F2516220
06361 0 40200 0 05217	SUB WRKRXT	THE RX TABLE.	·F2516230
06362 0 10000 0 06366	TZE S8	SUCCESSFUL SEARCH.	F2516240
06363 2 00001 1 06364	TIX \$3,1,1	INDEX FOR NEXT ENTRY.	F2516250
06364 3 00000 1 06354 \$3	TXH SEARCH 1	TEST FOR END OF BLOCK.	F2516260
06365 0 02000 4 00001	TRA 1:4		F2516270
06366 0 50000 1 06450 S8	CLA RXTA+45+1	TABLE ENTRY CONTAINS	F2516280
06367 -0 32000 0 05076	ANA L(7)	BLOCK NOS. 0-5 WHICH	F2516290
06370 0 73400 2 00000	PAX 0.2	CORRESPOND TO BLOCKS	F2516300
06371 -0 53400 4 05241	LXD ER40+4	A-F.	F2516310
06372 0 02000 4 00001	TRA 1.4		F2516320
06373 +000000006600 RXTA	OCT 6600	6L. 760 MASK	F2516330
06374 +000000006400	OCT 6400	6C	F2516340
	OCT 6200	6R	F2516350
06375 +000000006200 06376 +000000005600	OCT 5600	5L	F2516360
06377 +0000000004600	OCT 4600	4L	F2516370
	OCT 4200	4R	F2516380
06400 +000000004200	OCT 3600	3L	F2516390
06401 +000000003600	OCT 3400	3C	F2516400
06402 +000000003400	OCT 2400	2C	F2516410
06403 +000000002400	OCT 1600	1L	F2516420
06404 +000000001600	OCT 5501	5C, 774 MASK	F2516430
06405 +000000005501	OCT 5400	5C	F2516440
06406 +000000005400	OCT 5302	5R	F2516450
06407 +000000005302	OCT 5200	5R	F2516460
06410 +000000005200	OCT 4541	4C	F2516470
06411 +000000004541	OCT 4501	4C	F2516480
06412 +000000004501	OCT 4445	40	F2516490
06413 +000000004445	OCT 4400	4C	F2516500
06414 +000000004400	OCT 1541	ic	F2516510
06415 +000000001541	OCT 1501	ic	F2516520
06416 +000000001501	OCT 1445	ic	F2516530
06417 +000000001445	OCT 1400	ic	F2516540
06420 +000000001400	OCT 1215	1R, 773 MASK	F2516550
06421 +000000001215	OCT 1200	1R	F2516560
06422 +000000001200	OCT 2723	2L	F2516570
06423 +000000002723	OCT 2733	2L	F2516580
06424 +000000002733	OCT 2623	2L	F2516590
06425 +000000002623	OCT 2633	2L	F2516600
06426 +000000002633	OCT 3324	3R	F2516610
06427 +000000003324	OCT 3302	3R	F2516620
06430 +000000003302	OCT 3223	3R	F2516630
06431 +000000003223	OCT 3200	3R	F2516640
06432 +000000003200	OCT 1334	1R	F2516650
06433 +000000001334	OCT 1324	1R	F2516660
06434 +000000001324	OCT 1315	1R	F2516670
06435 +000000001315	OCT 1302	1R	F2516680
06436 +000000001302	OCT 1233	1R	F2516690
06437 +000000001233	OCT 1223	1R	F2516700
06440 +000000001223	OCT 2600	2L , 763 MASK	F2516710
06441 +000000002600			

06442	+0	00000002	610		oct	2610	2L	F2516720				
06443	+00	00000002	233		OCT	2233	2R	F2516730				
06444	+00	00000002	223		OCT	2223	2R	F2516740				
06445	+00	00000002 00000002 00000002	215		OCT	2215		F2516750				
06446	+00	00000002	200		OC I	2200	2R	F2516760				
•							**************************************					
06667	^	54000 3	01102	CNSTI	1.00	DOTAGZENA 2	THIS IS THE NORMAL TXI DECREMENT.	F2516790				
06450	ŏ	76200 2	01102	CNSIS	LUG	10	LEAVES IT IN ACCIMINATION.	F2516800				
06450	9	10300 0	06657		TVU	CN21 15 -1 - 2	TE DOCTUDE 2. C1 DOC	F2516810				
06451	. 3	20002 1	00421		MDY	MDK CCTY	DIN2 FOD C2 OD C2.	F2516020				
06452	. 0	76500 0	00044		LRS	18	THIS IS THE NORMAL TXI DECREMENT. COMPUTES DECREMENT AND LEAVES IT IN ACCUMULATOR. IF POSIND=3, S1 POS. DIN3 FOR S2 OR S3. POSIND=2 S2 POS. D2D1N3 FOR S3. PLACE TWICE POSIND IN INDEX REGISTER. CN3D1D2 OR CN3D1 OR CN3. RESULT IS N3G.	F2516840				
06454	3	00001 1	06457		TYH	CN31.15.1.1	POSIND=2 S2 POSA	F2516850				
06455	õ	200001 1	03645		MPY	WRKSC+7	D2D1N3 FOR S3.	F2516860				
06456	õ	76500 0	00022		LRS	18	DEDING TOR OST	F2516870				
06457	-0	75400 1	00000	CN31J5	PXD	0 • 1	PLACE TWICE	F2516880				
06460	ŏ	76700 0	00001		ALS	1	POSIND IN	F2516890				
06461	-0	73400 1	00000		PDX	0 • 1	INDEX REGISTER.	F2516900				
06462	ŏ	20000 1	03644		MPY	WRKSC+6 • 1	CN3D1D2 OR CN3D1 OR CN3	F2516910				
06463	ŏ	77100 0	00001		ARS	1		F2516920				
06464	ŏ	02000 4	00001		TRA	1.4	RESULT IS N3G.	F2516930				
00.07	•					******	************	*F2516940				
						CILO23 FILLS OUT	THE LOCATION, ADDRESS, AND TAG NAME WORDS FO	0F2516950				
						FOR NON-LOCATION	COMPILED INSTRUCTIONS ADDRESSING THE FOLLOW	IF2516960				
						ING INSTRUCTIONS		F2516970				
06465	0	50000 0	05133	CIL023	CLA	L(0)	ROUTINE PLACES SPECIAL	F2516980				
06466	0	60100 0	05176		STO	CILOO		F2516990				
06467	0	50000 0	05061		CLA	L1DEC	SYMBOL FOR ADDRESS	F2517000				
06470	0	60100 0	05201		STO	CIL03		F2517010				
06471	0	50000 0	05077		CLA	BCD15	AND INITIALIZES LOC. WORD	F2517020				
06472	0	60100 0	05.200		STO	CILO2	AND PLACES TAG IN	F2517030				
06473	0	50000 0	03652		CLA	TAG3	TAG WD. THIS IS DOEN	F2517040				
06474	0	62100 0	05201		STA	CIL03	FOR INST. OF K DECREMENT.	F2517050				
06475	0	02000 4	00001		TRA	1,4	ROUTINE PLACES SPECIAL SYMBOL FOR ADDRESS AND INITIALIZES LOC. WORD AND PLACES TAG IN TAG WD. THIS IS DOEN FOR INST. OF K DECREMENT.	F2517060				
		•				****	FOR INST. OF K DECREMENT. ***********************************	F2517070				
						TGA MAKES AN ENTRY	Y IN APPENDED TAGTAG SHOWING THE LOCATION OF	F2517080				
						A GIVEN VARIABLE (DECREMENT IX! OR TIX. FOR REFERENCE BY THE	FJSIZNON				
						ALPHA STATE WHEN	FOR RX LOC. FOR TX LOC. FOR TX LOC. DIV VCTOR BY 8. CALCULATES X LOC OF TTGA. INDEX QUANTITY FOR TTGA IS ONE FOURTH THAT FOR TTG. SHIFT LEFT FOR S1 OR S2 ADDRESS IS ORIGIN PLUS MAX ADD TG WD. LINKAGE TRANSFER.	F2517100				
						INSTRUCTIONS.	500 DV 105	F2517110				
06476	0	76700 0	00022	r GA	ALS	18	FOR TY LOG DIN NOTED ON A	F2517120				
06477	0	77100 0	00003	IGAT	AKS	5 TOTCA	LOK IX FOC+ DIA ACION BA 8*	F2517130				
06500	0	60100 0	05202		510	ERIGA		F2517140				
06501	0	53400 1	05240		CLA	VIC.	CALCULATER Y LOC OF TICA	F2517150				
06502	0	50000 0	05237		ADC	710	INDEX CHARTITY FOR TEGA IS	F2517160				
06503	0	77100 0	00002		AK2	0-3	ONE COURTH THAT COR TICE	F2517100				
06504	-0	13400 2	00000		CLA	EDTCA	UNE FUUKIN INAL FUK 1104	F251718U				
06505	0	50000 0	05202	TCAE	TIV	TGA10-1-1	CHIET LEET FOR CL OR CZ	F251719U				
06506	2	00001 1	00011	TCAD	VII.Y	MATCA-3	ADDRES TO DESCENDENCE MAY	F2517200				
06507	-ō	00200 2	02046	IGAS	TDA	MAIGAJZ	ADD TO WD. I INVACE TRANSFED	F2517220				
06510	0	74700 4	10000	TGAIO	ALC	477	ADD IS MOS ETHENGE IMMUSERS	F2517220				
06211	0	02000 0	06506	IGATO	TDA	TGA5		F2517240				
00312	٧.	02000 0	00200		INA	*********	************	F2517250				

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EDCB COMPILES TXI-SXD-TIX INSTRUCTIONS AND STORES THE SXD LOCF2517260
                                   ATION FOR BLOCKS B.C.D. OR E WHEN THE DECREMENTS ARE CONSTANTF2517270
                                                                                                 F2517280
                                   AND KNOWN.
                                                                                                 F2517290
                                                     COMPILES TXI SXD TIX
                               SXD EDCB5.4
06513 -0 63400 4 06533 EDCB
                                                                                                 F2517300
                               CLA L(TXI)
                                                     INSTRUCTIONS WHEN
06514 0 50000 0 05042
                                                                                                 F2517310
                                                     DECREMENTS ARE KNOWN.
                               STO CILO1
      0 60100 0 05177
06515
                                                                                                 F2517320
                                                     ASSUMES DECREMENTS TO
06516 0 50000 0 05245
                               CLA ERTX01
                                                                                                 F2517330
                                                     BE IN ERTXO1 AND
                               STA CILO1
06517 0 62100 0 05177
                                                                                                 F2517340
                               TSX CILO23,4
                                                     ERTX02.
      0 07400 4 06465
06520
                                                     COMPILE TXI INSTRUCITON.
                                                                                                 F2517350
                               TSX CIT+4
06521
      0 07400 4 04345
                                                                                                 F2517360
                                                     COMPILE SXD SKELETON.
                               TSX CSXD,4
06522 0 07400 4 04472
                                                                                                 F2517370
                               CLA CILOO
06523 0 50000 0 05176
                                                                                                 F2517380
                               ANA ADMSK
06524 -0 32000 0 05141
                                                     BELOW. PLACE SXD LOC. INTO
                                                                                                 F2517390
                               ALS 12
06525 0 76700 0 00014
                                                     DOTAG WORD 7. APPROPRIATE
                                                                                                 F2517400
                               LXD BLKNUM,4
06526 -0 53400 4 05250
                                                     BITS DEPEND ON BLOCK NOS.
                                                                                                 F2517410
                               TXH EDCB10,4,2
06527 3 00002 4 06534
                                                                                                 F2517420
                                                     BLOCKS D. E SHIFT LEFT 12.
06530 -0 53400 2 03647
                              LXD TAG2,2
                                                                                                 F2517430
                                                     BLOCKS C. B USE S1 DOTAG.
                               TXH EDCB5,4,1
06531 3 00001 4 06533
                                                                                                 F2517440
                                                     BLOCK C. SHIFT LEFT 12.
06532 0 76700 0 00006
                               ALS 6
                                                                                                 F2517450
                                                     BLOCK B. SHIGT LEFT 18.
                              TXL EDCB20.0
06533 -3 00000 0 06535 EDCB5
                                                                                                 F2517460
                                                                    USE S2 DOTAG.
06534 -0 53400 2 03650 EDCB10 LXD TAG2+1,2
                                                     BLOCK D.E
                                                                                                 F2517470
06535 -0 60200 2 01104 EDCB20 ORS DOTAGZ+6,2
                                                     PLACE LOC. INTO WD 7.
                                                                                                 F2517480
                                                     COMPILE
                              CLA L(TIX)
06536 0 50000 0 05046
                                                                                                 F2517490
                              STO CILO1
                                                     TIX.
06537 0 60100 0 05177
                                                                                                 F2517500
                                                     COMPILE
                              CLA ERTX02
06540
      0 50000 0 05246
                                                                                                 F2517510
                                                     TIX DECREMENT.
06541 0 62100 0 05177
                              STA CILO1
                                                                                                 F2517520
                              TSX CILO23,4
06542 0 07400 4 06465
                                                                                                 F2517530
                              TSX CIT+4
06543 0 07400 4 04345
                                                                                                 F2517540
                              LXD EDCB5+4
06544 -0 53400 4 06533
                                                                                                 F2517550
06545 0 02000 4 00001
                              TRA 1,4
                                   BCDE COMPILES TXI-SXD-TIX INSTRUCTIONS AND MAKES PROPER TABLEF2517570
                                   ENTRIES IN DOTAG AND TGA WHEN BLOCK B,C,D, OR E IS VARIABLE. F2517580
                                                                                                 F2517590
                              SXD BCDE2,4
06546 -0 63400 4 06567 BCDE
                                                                                                 F2517600
                              TSX CILV,4
                                                     OBTAIN LOC. FOR FIRST INST.
06547 0 07400 4 06224
                                                                                                 F2517610
                                                     MAKE LOCATION ENTRY INTO
                              CLA CILOO
06550 0 50000 0 05176
                                                                                                 F2517620
                              ANA ADMSK
                                                     APPENDED TAG WORD.
06551 -0 32000 0 05141
                                                                                                 F2517630
                              TSX TGA 4
06552 0 07400 4 06476
                                                                                                 F2517640
                                                     PLACE OPERATION IN
                              CLA L(TXI)
      0 50000 0 05042
06553
                                                                                                 F2517650
                                                     COMPILED INSTRUCTIN.
                              STO CILO1
      0 60100 0 05177
06554
                                                                                                 F2517660
                                                     FILL OUT REMAINING WORDS.
                              TSX CIL23,4
06555 0 07400 4 06625
                                                                                                 F2517670
                              TSX CIT+4
06556 0 07400 4 04345
                                                                                                 F2517680
                              TSX CSXD+4
06557 0 07400 4 04472
                                                                                                 F2517690
                              LXD BLKNUM . 2
06560 -0 53400 2 05250
                                                                                                 F2517700
                                                     TEST FOR BLOCKS B OR C.
06561 -3 00002 2 06570
                              TXL BCDE5,2,2
                                                                                                 F2517710
                                                     BLOCK D OR E.
                              CLA CILOO
06562 0 50000 0 05176
                                                                                                 F2517720
                                                     PLACE LOC. OF SXD INST.
                              LXD TAG2+1+1
06563 -0 53400 1 03650
                                                                                                 F2517730
                                                     INTO DOTAG ENTRY FOR
                              ANA ADMSK
06564 -0 32000 0 05141
                                                                                                 F2517740
                                                     CENTER SUBSCRIPT.
                              ALS 12
06565 0 76700 0 00014
                                                                                                 F2517750
                              ORS DOTAGZ+6+1
06566 -0 60200 1 01104
                                                     BLOCKS D.E CONTINUE.
                                                                                                 F2517760
                              TXL BCDE9,0
06567 -3 00000 0 06577 BCDE2
                                                                                                 F2517770
                              CLA CILOO
                                                     BLOCK B OR C .
06570 0 50000 0 05176 BCDE5
                                                     PLACE LOC. FOR SXD OF
                                                                                                 F2517780
                              LXD TAG2:1
06571 -0 53400 1 03647
                                                     REMAINING TWO BLOCKS.
                                                                                                 F2517790
                              ANA ADMSK
06572 -0 32000 0 05141
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F2517800
                              ALS 12
                                                    DISTINGUISH BETWEEN BLOCK B. C.
       0 76700 0 00014
                              TXH BCDE8,2,1
                                                                                                F2517810
       3 00001 2 06576
                                                                                                F2517820
                              ALS 6
       0 76700 0 00006
06576 -0 60200 1 01104 BCDE8
                              ORS DOTAGZ+6,1
                                                                                                F2517830
                                                    BLOCK NUMBER MUST BE
                                                                                                F2517840
06577 -0 75400 2 00000 BCDE9
                              PXD 0.2
                                                    STORED IN PROPER POS.
06600
       0 76700 0 00016
                              ALS 14
                                                    OF TAG 4 WORD.
                              LXA POSIND 1
                                                                                                F2517860
      0 53400 1 05240
06601
                              TXL BCDE10-1,1,1
                                                                                                F2517870
06602 -3 00001 1 06606
                                                    IF POSITION IS LEFT,
                              TXL BCDE10,1,2
                                                                                                F2517880
06603 -3 00002 1 06607
                              CAL BIT8
                                                    PLACE A ONE IN BIT 7 OF TAG4
                                                                                                F2517890
06604 -0 50000 0 05140
                              TRA BCDE10
                                                    TO INDICATE BLOCK D SPECIAL.
                                                                                                F2517900
06605
      0 02000 0 06607
                              ARS 3
                                                                                                F2517910
06606 0 77100 0 00003
06607 -0 53400 2 05237 BCDE10 LXD XTG+2
                                                                                                F2517920
                                                                                                F2517930
                              ORS MXTGTG+3,2
06610 -0 60200 2 02341
                                                    OBTAIN LOC. FOR THIRD
06611 0 07400 4 06224
                              TSX CILV.4
                                                                                                F2517940
                              CLA L(TIX)
                                                    INST. AND OPERATION PART
                                                                                                F2517950
06612 0 50000 0 05046
                                                    FOR 2ND WORD.
                                                                                                F2517960
06613 0 60100 0 05177
                              STO CILOI
                                                    FILL OUT REMAINING WORDS.
                                                                                                F2517970
                              TSX CIL23,4
       0 07400 4 06625
06614
                              TSX CIT,4
                                                                                                F2517980
      0 07400 4 04345
                              LXD BCDE2,4
                                                                                                F2517990
06616 -0 53400 4 06567
                              TRA 194
                                                                                                F2518000
06617 0 02000 4 00001
                                  NBITS ISOLATES THE VARIABLE PARAMETER BITS FOR A GIVEN DOTAG. F2518020
       0 50000 2 01076 NBITS
                              CLA DOTAGZ,2
                                                    ROUTINE FOR ISOLATING
                                                                                                F2518030
06620
                              ARS 15
                                                    THE N BITS OF A DO.
06621 0 77100 0 00017
                              ANA L(7)
                                                                                               F2518050
06622 -0 32000 0 05076
                              STO NIN2N3
                                                                                               F2518060
06623 0 60100 0 05235
06624 0 02000 4 00001
                              TRA 1:4
                                                                                               F2518070
                                  CIL23 FILLS OUT THE ADDRESS AND TAG NAME WORDS FOR A COMPILEDF2518090
                                  INSTRUCTION WHEN THE ADDRESS IS TO BE THE NEXT SEQUENTIAL INSF2518100
                                  TRUCTION AND THE LOCATION WORD IS FILLED ELSEWHERE.
                                                                                               F2518110
                              CLA CILOO
                                                    THIS ROUTINE PLACES TAG IN
                                                                                               F2518120
       0 50000 0 05176 CIL23
06625
                              STO CILOZ
                                                    TAG WD. OF CILO3 AND 1
                                                                                               F2518130
       0 60100 0 05200
                              CLA TAG3
                                                    IN DECREMENT FOR THE
                                                                                               F2518140
06627 0 50000 0 03652
                              ANA ADMSK
                                                    RELATIVE PARTS
                                                                                               F2518150
06630 -0 32000 0 05141
                                                    PLACES THE LOCATION IN
06631 -0 50100 0 05061
                              ORA LIDEC
                                                                                               F2518160
                                                    THE ADDRESS WORD CILO2 .
                              STO CILO3
                                                                                               F2518170
06632 0 60100 0 05201
06633 0 02000 4 00001
                              TRA 194
                                                                                               F2518180
                                  *************
                                                                             ***************F2518190
                                  CILNAM ENTERS ONLY THE TAG NAME.
                                                                                               F2518200
                                                    THIS ROUTINE.
                                                                                               F2518210
06634 0 50000 0 03652 CILNAM CLA TAG3
                                                    ENTERS THE
                                                                                               F2518220
                              ANA ADMSK
06635 -0 32000 0 05141
                              STO CILO3
                                                    TAG NAME
                                                                                               F2518230
06636 0 60100 0 05201
                                                    IN CIL.
                              TRA 1:4
06637 0 02000 4 00001
                                                                            ***************F2518250
                                                                                               F2518260
                                                                                               F2518270
                                     MASTER RECORD CARD = FN049
                                                                                               F2518275
                                  BEGIN ALPHA STATE
                                  THE ALPHA STATE, AC, IS CALLED BY MAN TO COMPILE ALL INITIALIF2518290
                                  ZATION AND LOAD INSTRUCTIONS WHEN AN ALPH OF A DO IS UNDER CF2518300
                                  CONSIDERATION.
                                                                                               F2518310
                              ORG RTX
                                                                                               F2518320
                 05256
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\$25.50		•			01252		CVD	AC248.4	STORE LINKAGE		E2510330
05260 0 00100 0 05240 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000 0 05000	05256	-0	63400	4	06232	AC	570	NCZTOTT	DOTAG ALDUA TE LOCATION.		F2510350
05260 0 50000 2 01104 CLA DINAU-8912 FIRE 05261 0 77100 0 00033 ARS 277 SIN DIOCATION F2318360 05262 0 32000 0 03170 ARA SORESR 1 ILLO AND F2518390 05263 0 60100 0 00025 ADD B TXL LOCATION F2518390 05263 0 60100 0 00025 ADD B TXL LOCATION F2518390 05264 0 50000 2 01076 CLA DOTAGZ-2 ERTRO1 FOR F2518410 05267 -0 32000 0 050176 STO CILOO IN F2518400 05266 0 60100 0 05251 STO SXDTXZ F2518410 05267 -0 32000 0 05021 ARA NOPRET F2518400 05270 0 60100 0 05251 STO SXDTXZ F2518400 05271 0 76600 0 03001 WRS 193 OF SXDTX TABLE. F2518450 05273 0 36100 0 05251 CAL SXDTXZ MAKE F2518450 05273 0 36100 0 05176 ACL CILOO SXDTX F2518450 05274 0 60200 0 05245 SLW ERTXO1 TABLE F2518450 05277 0 70000 0 05251 CAL SXDTXZ DETAGLE F2518450 05277 0 70000 0 05251 CAL SXDTXZ DETAGLE F2518450 05277 0 70000 0 05251 CAL SXDTXZ DETAGLE F2518450 05277 0 70000 0 05251 CAL SXDTXZ DETAGLE F2518450 05277 0 70000 0 05251 CAL SXDTXZ DETAGLE F2518450 05277 0 70000 0 05251 CAL SXDTXZ DETAGLE F2518450 05277 0 70000 0 05251 CAL SXDTXZ DETAGLE F2518450 05277 0 70000 0 05251 CAL SXDTXZ DETAGLE F2518450 05277 0 70000 0 05251 CAL DADS2 RESET DRUM F2518850 05270 0 60010 0 05155 CCPY ERTXD1 DETAGLE F2518500 05303 0 60100 0 05053 CLD BROSS2 RESET DRUM F2518850 05303 0 60100 0 05053 CLD BROSS2 RESET DRUM F2518520 05303 0 60100 0 05053 CLD BROSS2 RESET DRUM F2518500 05303 0 60100 0 05053 CLD BROSS2 RESET DRUM F2518500 05303 0 60100 0 05053 CLD BROSS2 RESET DRUM F2518500 05303 0 60100 0 05053 CLD BROSS2 RESET DRUM F2518500 05303 0 60100 0 05053 CLD BROSS2 RESET DRUM F2518500 05303 0 60100 0 05053 CLD BROSS2 RESET DRUM F2518500 05303 0 60100 0 05053 CLD BROSS2 RESET DRUM F2518500 05303 0 60100 0 05053 CLD BROSS2 RESET DRUM F2518500 05303 0 60100 0 05053 CLD BROSS2 RESET DRUM F2518500 05303 0 60100 0 05053 CLD BROSS2 RESET DRUM F2518500 05303 0 60100 0 05053 CLD BROSS2 RESET DRUM F2518500 05303 0 60100 0 05053 CLD BROSS2 RESET DRUM F2518500 05303 0 60100 0 05053 CLD BROSS2 RESET DRUM F2518500 05303 0 00100 0 05053 CLD BROSS2 RESET DRUM RESET DRUM RESET DRUM RESET DRU	05257	Ü	60100	U	05244		310	POTACZICIO	DUING ALPIN 13 LOCATIONS		F2510340
05261 0 77100 0 00033 ARS 27 05262 -0 32000 0 05170 ARA 60NESR IN P\$21830 05263 0 76700 0 00003 ALS 3 CILOO AND F\$21830 05264 0 40000 0 05225 ADD B TX. LOCATION F\$21830 05266 0 60100 0 05176 ARA 60NEST IN LOCATION F\$21830 05266 0 60100 0 05176 ARA NOPRET F\$21840 05270 -0 30100 0 01071 ARA NOPRET F\$21830 05271 0 76600 0 00030 WS 193 OF SXDTX TABLE. F\$21840 05272 -0 50000 0 05251 STO SXDTX MAKE F\$21840 05272 -0 50000 0 05251 CAL SXDTX MAKE F\$21840 05272 -0 50000 0 05251 CAL SXDTX MAKE F\$21840 05273 0 36100 0 05176 ACL CILOO SXDTX F\$21840 05274 0 60200 0 05255 SLM ERTX01 TABLE F\$21840 05276 0 70000 0 05176 ACL CILOO DRUM 1. 05277 0 70000 0 05176 CPY SXDTXZ ON F\$21840 05277 0 70000 0 05176 CPY SXDTXZ ON F\$21840 05277 0 70000 0 05176 CPY CILOO DRUM 1. 05277 0 70000 0 05176 CPY CILOO DRUM 1. 05277 0 70000 0 05176 CPY CILOO DRUM 1. 05277 0 70000 0 05176 CPY CILOO DRUM 1. 05277 0 70000 0 05176 CPY CILOO DRUM 1. 05277 0 70000 0 05176 CPY CILOO DRUM 1. 05277 0 70000 0 05176 CPY CILOO DRUM 1. 05277 0 70000 0 05176 CPY ERTX01 05000 0 05000 0 05003 LDA DRADS2 RESET DRUM F\$21840 05000 0 05000 0 05003 CDA DRADS2 RESET DRUM F\$21850 05000 0 05000 0 05003 CDA DRADS2 RESET DRUM F\$21850 05000 0 05000 0 05003 CDA DRADS2 RESET DRUM F\$21850 05000 0 05000 0 05003 CDA DRADS2 RESET DRUM F\$21850 05000 0 05000 0 05003 CDA DRADS2 RESET DRUM F\$21850 05000 0 05000 0 05003 CDA DRADS2 RESET DRUM F\$21850 05000 0 05000 0 05003 CDA DRADS2 RESET DRUM F\$21850 05000 0 05000 0 05003 CDA DRADS2 RESET DRUM F\$21850 05000 0 05000 0 05003 CDA DRADS2 RESET DRUM F\$21850 05000 0 05000 0 05003 CDA DRADS2 RESET DRUM F\$21850 05000 0 05000 0 05003 CDA DRADS2 RESET DRUM F\$21850 05000 0 05000 0 05003 CDA DRADS2 RESET DRUM F\$21850 05000 0 05000 0 05003 CDA DRADS2 RESET DRUM F\$21850 05000 0 05000 0 05003 CDA DRADS2 RESET DRUM F\$21850 05000 0 05000 0 05003 CDA DRADS2 RESET DRUM F\$218600 05000 0 05000 0 05003 CDA DRADS2 RESET DRUM F\$218600 05000 0 05000 0 05003 CDA DRADS2 RESET DRUM F\$218600 05000 0 05000 0 05000 CDA DRADS2 RESET DRUM F\$218600 05000 0 05000 0 05000 CD	05260	0	50000	2	01104		CLA	DUTAGZ+692	PLACE		F2318330
05262 -0 32000 0 05170 ANA 60NESR IN F2518380 05264 0 40000 0 05225 ADD B TXL LOCATION F2518380 05264 0 40000 0 05225 ADD B TXL LOCATION F2518380 05266 0 05000 0 05176 CT CAL DOTAGY 22 05260 0 05000 0 05176 CT CAL DOTAGY 22 05271 0 76600 0 0301 MRS 193 OF SXDTX TABLE. F2518430 05271 0 76600 0 0301 MRS 193 OF SXDTX TABLE. F2518430 05271 0 76600 0 0301 MRS 193 OF SXDTX TABLE. F2518450 05273 0 36100 0 05176 ACL CILO0 SXDTX F2518450 05274 0 6000 0 03016 ACL CILO0 SXDTX F2518450 05274 0 6000 0 030563 LDA DRADS2 ENTRY F2518450 05277 0 70000 0 05251 CAL DA DRADS2 ENTRY F2518490 05277 0 70000 0 05251 CAL SXDTXZ ON F2518490 05277 0 70000 0 05176 CPY CILO0 DRUM 1. F2518490 05277 0 70000 0 05245 SLW ERTXO1 TABLE F2518490 05277 0 70000 0 05176 CPY CILO0 DRUM 1. F2518490 05277 0 70000 0 05176 CPY CILO0 DRUM 1. F2518500 05300 0 00000 0 05176 CPY CILO0 DRUM 1. F2518500 05300 0 0000 0 05176 ST CILO TABLE F2518440 05300 0 0000 0 05176 ST CILO1 TABLE F2518400 05300 0 0000 0 05176 ST CILO1 TABLE F2518500 05300 0 0000 0 05176 ST CILO1 TABLE F2518500 05300 0 0000 0 05176 ST CILO1 TABLE F2518500 05300 0 0000 0 05176 ST CILO1 TABLE F2518500 05300 0 0000 0 05176 ST CILO1 TABLE F2518500 05300 0 0000 0 05176 ST CILO1 TABLE F2518500 05301 0 0000 0 05176 ST CILO1 TABLE F2518500 05301 0 0000 0 05176 ST CILO1 TABLE F2518500 05301 0 0000 0 05176 ST CILO1 TABLE F2518500 05301 0 0000 0 05176 ST CILO1 TABLE F2518500 05301 0 0000 0 05176 ST CILO2 INTITIALIZE CIL WORDS F2518500 05301 0 0000 0 05176 ST CILO2 INTITIALIZE CIL WORDS F2518500 05301 0 0000 0 05176 ST CILO2 INTITIALIZE CIL WORDS F2518500 05301 0 0000 0 05176 ST CILO2 INTITIALIZE CIL WORDS F2518500 05301 0 0000 0 05176 ST CILO2 INTITIALIZE CIL WORDS F2518500 05301 0 0000 0 05176 ST CILO2 INTITIALIZE CIL WORDS F2518500 05301 0 0000 0 05176 ST CILO2 INTITIALIZE CIL WORDS F2518500 05301 0 0000 0 05176 ST CILO2 INTITIALIZE CIL WORDS F2518500 05301 0 0000 0 05176 ST CILO2 INTITIALIZE CIL WORDS F2518500 05301 0 00000 0 05176 ST CILO2 INTITIALIZE CIL WORDS F2518500 05301 0 00000 0 05176 ST CILO	05261	0	77100	0	00033		ARS	27	SXD LOCATION		F2518360
05264 0 4000 0 05265 ADD B TXL LOCATION F2518390 05266 0 60100 0 05176 STO CILOO IN F2518400 05266 0 60100 0 05176 STO CILOO IN F2518400 05267 0 60100 0 05251 STO STO STATUS 05277 0 60100 0 05251 STO SADYXZ 05277 0 76600 0 00301 WRX SADYXZ 05277 0 70000 0 05251 STO SADYXZ 05277 0 70000 0 05256 STO SADYXZ 05270 0 70000 0 05256 STO SADYXZ 05270 0 70000 0 05256 STO SADYXZ 05300 0 70000 0 05256 STO SADYXZ 05300 0 70000 0 05256 STO SADYXZ 05300 0 70000 0 05265 STO SADYXZ 05300 0 70000 0 05176 STO SADYXZ 05300 0 00100 0 05063 STO SADYXZ 05300 0 00100 0 05063 STO SADYXZ 05300 0 00100 0 05176 STO SADYXZ 05300 0 00100 0 05176 STO SADYXX 05300 0 00100 0 05176 STO SADYXX 05300 0 00100 0 05176 STO SADYXX 05300 0 00100 0 05176 STO STO SADYXX 05300 0 00100 0 05177 STO CILOO TO ALL ONES AND FROM SADYXX 05300 0 00100 0 05176 STO CILOO TO ALL ONES AND FROM SADYXX 05301 0 00100 0 05177 STO CILOO TO ALL ONES AND FROM SADYXX 05301 0 00100 0 05176 STO CILOO TO ALL ONES AND FROM SADYXX 05301 0 00100 0 05177 STO CILOO TO ALL ONES AND FROM SADYXX 05301 0 00100 0 05177 STO CILOO TO ALL ONES AND FROM SADYXX 05301 0 00100 0 05176 STO CILOO TO ALL ONES AND FROM SADYXX 05301 0 00100 0 05176 STO CILOO TO ALL ONES AND FROM SADYXX 05301 0 00100 0 05176 STO CILOO TO ALL ONES AND FROM SADYXX 05301 0 00100 0 05176 STO CILOO TO ALL ONES AND SADYXX 05301 0	05262	-0	32000	0	05170		ANA	60NESR	IN		F2518370
Display Disp	05263	0	76700	0	00003		ALS	3	CILOO AND		F2518380
S726	05264	0	40000	0	05225		ADD	В	TXL LOCATION		F2518390
S2566	05265	ŏ	60100	ō	05176		STO	CILOO	IN		F2518400
S527	05266	õ	50000	2	01076	,	CLA	DOTAGZ • 2	ERTXO1 FOR		F2518410
05271	05267	-0	32000	ō	05071		ANA	NOPRET			F2518420
02271	05201	-0	60100	ň	05251		STO	SXDTXZ			F2518430
05271	05270	×	36600	ž	00201		WPS	193	OF SYDTY TARLE.		F2518440
05272 -0 50000 0 05251 CAL SAUTA. RACE 05274 0 60200 0 05245 SLW ERTX01 TABLE F2518460 05276 0 70000 0 05245 SLW ERTX01 TABLE F2518470 05276 0 70000 0 05251 CPY SXDTXZ ON F2518480 05276 0 70000 0 05176 CPY CILO0 DRUM 1. F2518490 05301 0 70000 0 05176 CPY CILO0 DRUM 1. F2518490 05301 0 70000 0 05245 CPY ERTX01 F2518500 05300 0 70000 0 05245 CPY ERTX01 F2518500 05300 0 70000 0 05063 CLA DRADS2 RESET DRUM F2518510 05301 0 50000 0 05063 CLA DRADS2 RESET DRUM F2518510 05303 0 0 00100 0 05063 STO DRADS2 RESET DRUM F2518530 05303 0 0 00100 0 05063 STO DRADS2 RESET DRUM F2518530 05303 0 0 01000 0 05063 STO DRADS2 RESET DRUM F2518530 05304 0 50000 0 05123 AC05 CLA ALLONE INTITIALIZE CIL WORDS F2518500 05305 0 0 01000 0 050176 STO CILO0 TO ALL ONES AND F2518550 05305 0 0 01000 0 05177 STO CILO1 PUT F2518570 05307 0 0 01000 0 05200 STO CILO2 INTO CIT PUT F2518570 05311 0 0 01000 0 05200 STO CILO2 INTO CIT PUT F2518570 05312 0 0 07400 4 040352 TSX CITSP 4 SENTY F2518600 05312 0 0 07400 4 04052 AC010 TSX FIND 4 SAUTHORS IN XTG F2518630 05314 -0 06400 1 05221 SXD RTXTG 7.1 05315 -0 07400 4 04152 AC010 TSX FIND 4 AND BETA F2518630 05316 0 07400 4 04152 AC010 TSX FIND 4 AND BETA F2518630 05317 -0 63400 1 05237 SXD XTG 1 SYD F TO FIG TION THIN ALPHA F2518630 05317 -0 63400 1 05237 SXD XTG 1 SYD F TO FIG TION THE ALPHA F2518630 05310 -0 07400 4 04152 AC010 TSX FIND 4 AND BETA F2518650 05317 -0 63400 1 05237 SXD XTG 1 SYD F TO FIG TION THE ALPHA F2518630 05312 -0 07400 4 04152 AC010 TSX FIND 4 AND BETA F2518650 05313 -0 53400 1 03652 LX TX AC010 THE OUTERNOST DO F2518600 05312 -0 75400 1 03652 LX TX AC010 THE OUTERNOST DO F2518600 05322 -0 07400 4 042373 AC014 TSX SCLMN1,4 0BTAIN X FOR MINLEY OF S C F2518650 05327 0 07400 4 0423 AC016 TXX AC010 THE OUTERNOST DO F2518600 05323 -0 0000 0 05334 TRA AC020 MSKSC AND CONTINUE F2518630 053340 0 0000 0 05365 AC016 CLA TAG3 RESET TYPE ENTRY, USE NEW TAG F251870 05335 0 00000 0 05365 AC016 CLA TAG3 RESET TYPE ENTRY, USE NEW TAG F251870 053340 0 07400 4 04236 AC019 TSX SUBCOM+4 05343 0 0740	05271	Õ	16600	Ď	00301		CAL	CVDTV7	MAKE INDUCT		F2510450
05277 0 06000 0 05245 SLW ERTXD1 TABLE F2518470 05275 0 46000 0 05063 LDA DRADS2 ENTRY F2518480 05276 0 70000 0 05063 LDA DRADS2 ENTRY F2518490 05277 0 70000 0 05251 CPY SXDTXZ ON F2518490 05277 0 70000 0 05176 CPY CILOD DRUM 1. 05300 1 0 70000 0 05176 CPY ENTXD1 05300 1 0 50000 0 05063 CLA DRADS2 RESET DRUM F2518510 05301 0 50000 0 05131 ADD L(3) ADD	05272	-0	50000	0	05251		CAL	SAUTAL	CYCTY		F2510430
05277 0 60200 0 05245 SLW ENTXOI TABLE F2518470 05276 0 70000 0 05063 LDA DRADS2 ENTRY F2518480 05276 0 70000 0 05251 CPY SXDTXZ ON F2518490 05301 0 70000 0 05255 CPY SXDTXZ ON F2518500 05300 0 70000 0 05245 CPY ERTXOI F2518510 05301 0 70000 0 05245 CPY ERTXOI F2518510 05301 0 70000 0 05245 CPY ERTXOI F2518510 05302 0 40000 0 05131 ADD L(3) ADDRESS FOR F2518520 05302 0 40000 0 05131 ADD L(3) ADDRESS FOR F2518520 05303 0 0 60100 0 05063 STO DRADS2 NEXT ENTRY. F2518540 05304 0 50000 0 05176 STO CILO2 INTITIALIZE CIL WORDS F2518540 05305 0 60100 0 05176 STO CILO2 INTO CIT F251850 05305 0 60100 0 05176 STO CILO2 INTO CIT F251850 05301 0 60100 0 05200 STO CILO2 INTO CIT F251850 05310 0 60100 0 05201 STO CILO2 INTO CIT F251850 05311 0 06100 0 05201 STO CILO2 INTO CIT F251850 05311 0 07400 4 04552 TSX CITSP.4 ENTRY. F2518600 05313 - 0 63400 1 05221 SXD RTXTGX-1 05314 - 0 63400 1 05227 SXD RTXTGX-1 05315 0 07400 4 04162 AC010 TXA AC240+1 END GF DO FOR DOTAG. F251860 05316 0 07400 4 04162 AC010 TXA AC240+1 END GF DO FOR DOTAG. F2518670 05321 - 0 53400 1 05237 LXD XTG-1 SXD XTG-1 STO REGISTIONS F2518660 05322 - 0 10000 0 02230 SUB DOIND TEST TO SEE IT HIS IS F2518670 05323 - 0 10000 0 03652 AC018 TXA AC340+1 SET UP FOR FIND ROUTINE. F2518670 05322 - 0 77000 0 00355 CLA TAG3 NO CURRENT TG. USE NEW TG. F251870 05323 - 0 10000 0 03652 AC018 TXA AC018+1.4 OBTAIN X FOR MINLEY OF S.C. F2518670 05327 0 77100 0 00013 ARS 11 CHECK RESET TAG BIT F1 IS F251870 05325 0 00000 0 03652 AC018 TXA AC018+1.4 OBTAIN X FOR MINLEY OF S.C. F2518670 05327 0 77100 0 00013 ARS 11 CHECK RESET TYPE ENTRY. SIRW LAG. F251870 05330 0 07400 4 04230 TXA AC016 TXA AC020 MRKSC AND CONTINUE. F251870 05333 0 07400 4 04230 TXA AC016 TXA AC020 MRKSC AND CONTINUE. F2518800 05333 0 07400 0 03652 AC018 TXA AC020 MRKSC AND CONTINUE. F2518800 05334 0 07400 0 040365 AC018 TXA AC021 DECRENATIAN DOUT TAU ENTRIES F2518800 05340 0 07400 0 04036 AC020 TXX NISHET.4 WRKSC AND CONTINUE. F2518800	05273	0	36100	0	05176		ACL	CILOO	SAUIA		F291846U
05276 0 46000 0 05063	05274	0	60200	0	05245		SLW	ERTX01	TABLE		F2518470
0.5276 0.70000 0.05251 CPY SXDTXZ ON F2518490 0.5277 0.70000 0.05176 CPY CIL00 DRUM 1	05275	0	46000	0	05063		LDA	DRADS2	ENTRY		F2518480
105277 0 70000 0 05176 CPY CILO0 DRUM 1. F2518500	05276	0	70000	0	05251		CPY	SXDTXZ	ON		F2518490
05300	05277	0	70000	0	05176		CPY	CIL00	DRUM 1.		F2518500
0.5000	05300	ŏ	70000	Ď	05245		CPY	ERTX01		. :	F2518510
05302 0 40000 0 05131 ADD L(3) 05303 0 60100 0 05063 STO DRADS2 NEXT ENTRY. F2518540 05304 0 50000 0 05123 ACOS CLA ALLONE INITIALIZE CIL WORDS F2518550 05305 0 60100 0 05176 STO CIL00 TO ALL ONES AND F2518550 05306 0 60100 0 05177 STO CIL01 PUT F2518570 05307 0 60100 0 05200 STO CIL02 INTO CIT F2518570 05310 0 60100 0 05201 STO CIL03 AS FIRST ALPHA STAGE F2518590 05311 0 07400 4 04352 TSX CIT5P)4 ENTRY. F2518600 05312 0 07400 4 04153 TSX SCAN,4 SCAN AND FIND PICK F2518610 05313 -0 63400 1 05221 SXD RTXTGX:1 05314 -0 63400 1 05221 SXD RTXTGX:1 05315 0 07400 4 04162 AC010 TSX FIND;4 AND BETA. F2518620 05316 0 02000 0 06240 TRA AC240+1 END OF DO FOR DOTAG. F2518660 05317 -0 63400 1 05237 SXD XTG:1 STORE TGTG INDEX IN XTG. F2518660 05317 -0 63400 1 05237 SXD XTG:1 STORE TGTG INDEX IN XTG. F2518660 05312 0 07400 4 04373 AC014 TSX SCLMNI,4 OBTAIN X FOR MINLEY OF S.C. F2518660 05322 -0 07400 4 04373 AC014 TSX SCLMNI,4 OBTAIN X FOR MINLEY OF S.C. F2518670 05323 -0 10000 0 05230 SUB DOIND TEST TO SEE IF THIS IS F2518690 05323 -0 10000 0 05230 SUB DOIND TEST TO SEE IF THIS IS F2518690 05323 -0 10000 0 05230 SUB DOIND TEST TO SEE IF THIS IS F2518690 05323 -0 10000 0 05352 CLA TAG3 NO CURRENT TG. USE NEW TG. F251870 05325 0 50000 0 03652 CLA TAG3 NO CURRENT TG. USE NEW TG. F251870 05326 0 50000 0 03652 CLA TAG3 NO CURRENT TG. USE NEW TG. F251870 05327 0 77100 0 00013 ARS 11 CHECK RESET TAG BIT F251870 05330 0 76000 0 00343 TRA AC0161 RESET TYPE ENTRY, USE NEW TAG. F251870 05330 0 76000 0 00355 AC0161 CLA TAG3 RESET TYPE ENTRY, USE NEW TAG. F251870 05330 0 76000 0 03652 AC0161 CLA TAG3 RESET TYPE ENTRY, USE NEW TAG. F2518800 05334 0 50000 0 03652 AC018 CLA TAG3 RESET TYPE ENTRY, USE NEW TAG. F2518800 05334 0 70400 4 04236 TSX SUBCOM;4 WRKSC AND CONTINUE. F2518800 05334 0 70400 4 04236 TSX SUBCOM;4 WRKSC AND CONTINUE. F2518800 05334 0 70400 4 04236 TSX SUBCOM;4 WRKSC AND CONTINUE. F2518800 05343 0 07400 4 04236 AC019 TSX SUBCOM;4 WRKSC AND CONTINUE. F2518800	05300	ŏ	50000	ň	05063		CLA	DRADS2	RESET DRUM		F2518520
05302 0 60100 0 05063 05303 0 60100 0 05176 05304 0 50000 0 05123 ACO5 CLA ALLONE INITIALIZE CIL WORDS F2518560 05305 0 60100 0 05177 STO CIL01 PUT F2518560 05305 0 60100 0 05200 STO CIL02 INTO CIT F2518560 05305 0 60100 0 05200 STO CIL02 INTO CIT F2518560 05310 0 60100 0 05201 STO CIL03 AS FIRST ALPHA STAGE F2518560 05311 0 07400 4 04352 TSX CITSP,4 ENTRY. F2518600 05312 0 07400 4 04352 TSX CITSP,4 ENTRY. F2518600 05313 -0 63400 1 05221 SXD RTXTGX:1 SYD RTXTGX:1 SXD RTXTGX:1 SXD RTXTGX:1 SXD RTXTGX:1 SXD RTXTGX:1 SYD RTXTGX:1 SXD RTXTGX:1 SYD RTXTGX:1 SXD R	05301	Š	40000	ĭ	05131		ADD	1 (3)	ADDRESS FOR		F2518530
05303 0 05000 0 05123 ACO5 CLA ALLONE INITIALIZE CIL WORDS F251850 05305 0 60100 0 05127 STO CILO0 TO ALL ONES AND F251850 05306 0 60100 0 05177 STO CILO1 PUT F251850 05307 0 60100 0 05200 STO CILO2 INTO CIT F251850 05310 0 60100 0 05201 STO CILO2 INTO CIT F251850 05311 0 07400 4 04552 TSX CITSP14 ENTRY. F251860 05312 0 07400 4 04153 TSX SCAN+4 SCAN AND FIND PICK F251860 05312 0 07400 4 04153 SXD XTG-1 BY A DO WITHIN ALPHA F2518620 05314 -0 63400 1 05221 SXD RTXTGX-1 05315 0 07400 4 04162 ACO10 TSX FIND;4 AND BETA. F251860 05316 0 02000 0 06240 TRA AC240+1 END OF DO FOR DOTAG. F2518650 05317 -0 63400 1 05237 SXD XTG-1 STORE TGTG INDEX IN XTG. F2518650 05317 -0 63400 1 05237 SXD XTG-1 STORE TGTG INDEX IN XTG. F2518650 05318 0 02000 0 06240 TRA AC240+1 END OF DO FOR DOTAG. F2518650 05312 -0 53400 1 05237 SXD XTG-1 STORE TGTG INDEX IN XTG. F2518650 05322 -0 07400 4 04373 ACO14 TSX SCLMN1;4 OBTAIN X FOR MINLEV OF S.C. F2518650 05322 -0 53400 1 05237 SXD XTG-1 STORE TGT INDEX IN XTG. F2518650 05322 -0 53400 1 05237 SXD XTG-1 STORE TGT INDEX IN XTG. F2518650 05322 -0 10000 0 05230 SUB DOIND TEST TO SEE IF THIS IS F2518690 05323 -0 10000 0 05230 SUB DOIND TEST TO SEE IF THIS IS F2518690 05324 -0 53400 1 03652 LXD TAG3+1 IF IT IS PROCEED TO F2518710 05325 3 00000 1 03652 LXD TAG3+1 IF IT IS PROCEED TO F2518710 05326 0 50000 0 03652 CLA TAG3 NO CURRENT TG. USE NEW TG. F2518730 05327 0 77100 0 00013 ARS 11 CHECK RESET TAG BIT F251870 05330 0 76000 0 00534 TRA ACO161 RESET TYPE ENTRY, SIMULATE F251870 05331 0 02000 0 05543 TRA ACO20 MRKSC AND CONTINUE. F251880 05334 0 50000 0 03652 ACO18 CLA TAG3 RESET TYPE ENTRY, SIMULATE F251870 05335 -0 02000 0 05355 TRA ACO21 DECRENENT AND CONTINUE. F251880 05340 0 70400 4 04236 ACO19 TSX SUBCOM+4 CTR. TAG VALID. LAY F2518830 05341 0 77100 0 00022 ARS 18 OUT TAU DNTRIES INTO F2518840	05302	0	40000	~	05151		STO	DPADS2	NEXT ENTRY.		F2518540
05304 0 50000 0 05176 STO CILOU TO ALLONES AND F2518500 05306 0 60100 0 05177 STO CILOU TO ALLONES AND F2518570 05307 0 60100 0 05200 STO CILO2 INTO CIT F2518570 05310 0 60100 0 05201 STO CILO3 AS FIRST ALPHA STAGE F2518590 05311 0 07400 4 04352 TSX CITSP+4 ENTRY- F2518600 05312 0 07400 4 04153 TSX SCAN+4 SCAN AND FIND PICK F2518610 05313 -0 63400 1 05221 SXD RTXTGX:1 BY A DO WITHIN ALPHA F2518620 05315 0 07400 4 04162 AC010 TSX FIND+4 AND BETA- F2518600 05315 0 07400 4 04162 AC010 TSX FIND+4 AND BETA- F2518640 05316 0 02000 0 06240 TRA AC240+1 END OF DO FOR DOTAG- F2518640 05316 0 02000 0 06240 TRA AC240+1 SXD XTG+1 STORE TGTG INDEX IN XTG- F2518660 05320 0 07400 4 04373 AC014 TSX SCLMN1+4 OBTAIN X FOR MINLEV OF S-C- F2518650 05322 0 040200 0 05233 SUB DOIND TEST TO SEE IF THIS IS F2518690 05322 -0 10000 0 05315 AC016 TNX AC010 THA AC010 TO F251870 05325 3 00000 1 05340 TXH AC018+10 COMPILE PROPER INST- F251870 05325 0 77100 0 00013 ARS 11 CHECK RESET TAG BIT F251870 05320 0 07400 4 04236 TXH AC018+10 COMPILE PROPER INST- F251870 05333 0 02000 0 05334 TRA AC020 MRKSC AND CONTINUE F251870 05334 0 07400 4 04236 TXS ENTR-4 CTR-TYPE ENTRY- SIMULATE F251870 05335 0 0000 0 05334 TRA AC020 MRKSC AND CONTINUE F251870 05336 0 07400 4 04236 TXS SUBCOM+4 CTR-TYPE ENTRY- SIMULATE F251870 05336 0 07400 4 04236 TXS SUBCOM+4 CTR-TYPE ENTRY- SIMULATE F251870 05336 0 07400 0 00555 TRA AC021 DECRENENT AND CONTINUE F251880 05340 0 07400 4 04236 TXS SUBCOM+4 CTR-TYPE ENTRY- SIMULATE F251880 05334 0 07400 4 04236 TXS SUBCOM+4 CTR-TYPE ENTRY- SIMULATE F251880 005340 0 07400 4 04236 TXS SUBCOM+4 CTR-TYPE ENTRY- SIMULATE F251880 005334 0 07400 4 04236 TXS SUBCOM+4 CTR-TYPE ENTRY- SIMULATE F251880 005340 0 07400 4 04236 TXS SUBCOM+4 CTR-TYPE ENTRY- SIMULATE F251880 005340 0 07400 4 04236 AC019 TXS SUBCOM+4 WRKSC AND CONTINUE F251880 00534	05303	Ŏ	90100	Ň	05005	4005	CIA	ALLONE	INITIALIZE CIL WODDS		F2518550
05305 0 60100 0 05176 STO CILOU 10 ALL UNITS AND F2518500 05306 0 60100 0 05177 STO CILO1 PUT F2518500 05307 0 60100 0 05200 STO CILO2 INTO CIT F2518500 05310 0 60100 0 05201 STO CILO3 AS FIRST ALPHA STAGE F2518500 05311 0 07400 4 04352 TSX CITSP,4 ENTRY. F2518600 05312 0 07400 4 04153 TSX SCAN.4 SCAN AND FIND PICK F2518610 05312 0 07400 1 05221 SXD RTXTGX:1 F2518610 05314 -0 63400 1 05221 SXD RTXTGX:1 SXD RTXTGX:1 SXD RTXTGX:1 SYD RTXTGX:1 SY	05304	0	50000	Ū	05123	ACOS	CLA	CILOR	TO ALL ONES AND		E2510540
05306 0 60100 0 05177 SIO CILO2 INTO CIT F2518500 05307 0 60100 0 05200 STO CILO2 INTO CIT F2518500 05310 0 60100 0 05201 STO CILO3 AS FIRST ALPHA STAGE F2518590 05311 0 07400 4 04352 TSX CITSP,4 ENTRY. F2518600 05312 0 07400 4 04153 TSX SCAN.4 SCAN AND FIND PICK F2518610 05313 -0 63400 1 05221 SXD RTATGX:1 BY A DO WITHIN ALPHA F2518630 05315 0 07400 4 04162 ACO10 TSX FIND,4 AND BETA. F2518640 05316 0 02000 0 06240 TRA AC240+1 END OF DO FOR DOTAG. F2518650 05317 -0 63400 1 05237 SXD XTG.1 STORE TGG INDEX IN XIG. F2518650 05320 0 07400 4 04373 ACO14 TSX SCLMNI,4 OBTAIN X FOR MINLEV OF S.C. F2518600 05322 0 40200 0 05230 SUB DOIND TEST TO SEE IF THIS IS F2518600 05322 -0 040200 0 05315 ACO16 TX ACO18-10 THE OUTERMOST DO. F2518700 05324 -0 53400 1 03652 LXD XTG.1 IF IT IS PROCEED TO F2518700 05327 0 77100 0 00013 ARS 11 CHECK RESET TAG BIT F2518730 05332 0 076000 0 03652 CLA TAG3 NO CURRENT TG, USE NEW TG. F2518750 05333 0 02000 0 05334 TRA ACO16 TX ACO16	05305	0	60100	0	05176		310	CILOU	DUT		F2510500
05310	05306	0	60100	0	05177		510	CILOI	PUI		L 5219210
05310 0 060100 0 05201 STO CILO3 AS FIRST APPHA STAGE F2518590 05311 0 07400 4 04352 TSX CITSP;4 ENTRY: F2518600 05312 0 07400 4 04153 TSX SCAN,4 SCAN AND FIND PICK F2518610 05313 -0 63400 1 05221 SXD RTXTGX:1 F2518620 05315 0 07400 4 04162 AC010 TSX FIND,4 AND BETA. F2518630 05315 0 07400 4 04162 AC010 TSX FIND,4 AND BETA. F2518640 05316 0 02000 0 06240 TRA AC240+1 END OF DO FOR DOTAG. F2518650 05317 -0 63400 1 05237 SXD XTG,1 STORE TGTG INDEX IN XTG. F2518660 05320 0 07400 4 04373 AC014 TSX SCLMN1;4 OBTAIN X FOR MINLEY OF S.C. F2518670 05321 -0 53400 1 05237 SXD XTG,1 SET UP FOR FIND ROUTINE. F2518680 05322 0 40200 0 05230 SUB DOIND TEST TO SEE IF THIS IS F2518690 05323 -0 10000 0 05230 SUB DOIND TEST TO SEE IF THIS IS F2518690 05324 -0 53400 1 03652 AC016 TAX AC010 THE OUTERMOST DO. F2518700 05325 0 00000 0 03652 CLA TAG3 NON CURRENT TG, USE NEW TG. F2518700 05326 0 50000 0 03652 CLA TAG3 NON CURRENT TG, USE NEW TG. F2518750 05331 0 02000 0 05334 TRA AC0210 TRX ENTRY. SIMULATE F2518760 05332 0 07400 4 04230 TSX ENTRY. CTR. TYPE ENTRY; SIMULATE F2518700 05333 0 07400 4 04230 TSX ENTRY. CTR. TYPE ENTRY; SIMULATE F2518700 05334 0 50000 0 03652 AC016 CLA TAG3 RESET TYPE ENTRY; SIMULATE F2518700 05335 -0 32000 0 055153 ANA 11BITS LAY OUT TAU ENTRIES F2518800 05336 0 07400 4 04236 TSX SUBCOM,4 P2518800 05340 0 50000 0 03652 AC018 CLA TAG3 CURRENT TAG VALID, LAY F2518800 05341 0 77100 0 00002 ARS 18 OUT TAU DITRIES F2518800 05343 0 07400 4 04236 AC019 TSX SUBCOM,4 WRKSC AND CONTINUE. F2518800 05343 0 07400 4 04236 AC019 TSX SUBCOM,4 WRKSC AND CONTINUE. F2518800 05343 0 07400 4 04236 AC019 TSX SUBCOM,4 WRKSC AND CONTINUE. F2518800	05307	0	60100	0	05200		510	CILOZ	INIU CII		F2218280
0 0 7400 4 04352	05310	0	60100	0	05201		STO	CIL03	AS FIRST ALPHA STAGE		F2518590
O 07400 4 04153 TSX SCAN 4 SCAN AND FIND PICK F2518610	05311	0	07400	4	04352		TSX	CITSP,4	ENTRY.		F2518600
STATE STAT	05312	0	07400	4	04153		TSX	SCAN,4	SCAN AND FIND PICK		F2518610
05314 -0 65400 1 05237	05313	-0	63400	1	05221		SXD	RTXTGX e 1			F2518620
05315	05314	~0	63400	1	05237		SXD	XTG,1	BY A DO WITHIN ALPHA		F2518630
05316	05315	õ	07400	4	04162	AC010	TSX	FIND,4	AND BETA.		F2518640
05317 -0 63400 1 05237	05316	ŏ	02000	Ó	06240		TRA	AC240+1	END OF DO FOR DOTAG.		F2518650
05320 0 07400 4 04373 ACO14 TSX SCLMN1,4 05321 -0 53400 1 05237 LXD XTG,1 SET UP FOR FIND ROUTINE. F2518680 05322 0 40200 0 05230 SUB DOIND TEST TO SEE IF THIS IS F2518690 05323 -0 10000 0 05315 ACO16 TNZ ACO10 THE OUTERMOST DO. F2518700 05324 -0 53400 1 03652 LXD TAG3,1 IF IT IS PROCEED TO F2518710 05325 3 00000 1 05340 TXH ACO18,1,0 COMPILE PROPER INST. F2518720 05326 0 50000 0 03652 CLA TAG3 NO CURRENT TG, USE NEW TG. F2518730 05327 0 77100 0 00013 ARS 11 CHECK RESET TAG BIT F2518740 05330 0 76000 0 05334 TRA ACO16I RESET TYPE ENTRY, USE NEW TAG. F2518750 05331 0 02000 0 05343 TRA ACO16I RESET TYPE ENTRY, USE NEW TAG. F2518770 05332 0 07400 4 04230 TSX ENTR,4 CTR. TYPE ENTRY, SIMULATE F2518770 05335 -0 32000 0 0552 ACO16I CLA TAG3 RESET TYPE ENTRY 05335 -0 32000 0 0555 ACO16I CLA TAG3 RESET TYPE ENTRY 05336 0 07400 4 04236 TSX SUBCOM,4 05337 0 02000 0 05355 TRA ACO21 DECRENENT AND CONTINUE. F251880 05340 0 50000 0 03652 ACO18 CLA TAG3 CURRENT TAG VALID, LAY F2518830 05341 0 77100 0 00022 ARS 18 OUT TAU DNTRIES INTO F2518840 05343 0 07400 4 04236 ACO19 TSX SUBCOM,4 05343 0 07400 4 04236 ACO19 TSX NISTET,4	05317	-0	63400	1	05237		SXD	XTG.1	STORE TGTG INDEX IN XTG.		F2518660
05321 -0 53400 1 05237	05321	~	07400	â	04273	AC014	TSX	SCLMN1 •4	OBTAIN X FOR MINLEY OF S.C.		F2518670
05321 0 40200 0 05230 SUB DOIND TEST TO SEE IF THIS IS F2518690 05323 -0 10000 0 05315 AC016 TNZ AC010 THE OUTERMOST DO. F2518700 05324 -0 53400 1 03652 LXD TAG3+1 IF IT IS PROCEED TO F2518710 05325 3 00000 1 05340 TXH AC018+1+0 COMPILE PROPER INST. F2518720 05326 0 50000 0 03652 CLA TAG3 NO CURRENT TG, USE NEW TG. F2518730 05327 0 77100 0 00013 ARS 11 CHECK RESET TAG BIT F2518740 05330 0 76000 0 05334 TRA AC016I RESET TYPE ENTRY, USE NEW TAG. F2518750 05331 0 02000 0 05334 TRA AC016I RESET TYPE ENTRY, USE NEW TAG. F2518760 05332 0 07400 4 04230 TSX ENTR,4 CTR. TYPE ENTRY, SIMULATE F251870 05333 0 02000 0 05343 TRA AC020 WRKSC AND CONTINUE. F2518780 05335 -0 32000 0 05153 ANA 11BITS LAY OUT TAU ENTRIES F2518800 05336 0 07400 4 04236 TSX SUBCOM+4 05337 0 02000 0 05355 TRA AC021 DECRENENT AND CONTINUE. F2518820 05340 0 50000 0 03652 AC018 CLA TAG3 CURRENT TAG VALID, LAY F2518830 05342 0 07400 4 04236 AC019 TSX SUBCOM+4 05343 0 07400 4 04560 AC020 TSX NISTET+4	05520	-0	52400	7	05227	ACO1.	IXD	YTG.1	SET UP FOR FIND ROUTINE.		F2518680
05322 -0 10000 0 05315 AC016 TNZ AC010 THE OUTERMOST DO. F2518700 05324 -0 53400 1 03652 LXD TAG3.1 IF IT IS PROCEED TO F2518710 05325 3 00000 1 05340 TXH AC018.1.0 COMPILE PROPER INST. F2518720 05326 0 50000 0 03652 CLA TAG3 NO CURRENT TG, USE NEW TG. F2518740 05327 0 77100 0 00013 ARS 11 CHECK RESET TAG BIT F2518740 05330 0 76000 0 00001 LBT OR INSERTED COUNTER. F2518750 05331 0 02000 0 05334 TRA AC016I RESET TYPE ENTRY, USE NEW TAG. F2518760 05332 0 07400 4 04230 TSX ENTR.4 CTR. TYPE ENTRY, SIMULATE F2518770 05333 0 02000 0 05343 TRA AC020 WRKSC AND CONTINUE. F2518780 05335 -0 32000 0 03652 AC016I CLA TAG3 RESET TYPE ENTRY F2518790 05335 -0 32000 0 05153 ANA 11BITS LAY OUT TAU ENTRIES F2518800 05336 0 07400 4 04236 TSX SUBCOM.4 F2518800 05340 0 50000 0 03652 AC018 CLA TAG3 CURRENT TAG VALID, LAY F2518830 05340 0 77000 0 00022 ARS 18 OUT TAU DNTRIES INTO F2518840 05342 0 07400 4 04236 AC019 TSX SUBCOM.4 WRKSC AND CONTINUE F2518850 05343 0 07400 4 04236 AC019 TSX SUBCOM.4 WRKSC AND CONTINUE F2518850 05343 0 07400 4 04236 AC019 TSX SUBCOM.4 WRKSC AND CONTINUE F2518850 05343 0 07400 4 04236 AC019 TSX SUBCOM.4 WRKSC AND CONTINUE F2518850 05343 0 07400 4 04236 AC019 TSX SUBCOM.4 WRKSC AND CONTINUE F2518850 05343 0 07400 4 04236 AC019 TSX SUBCOM.4 WRKSC AND CONTINUE F2518850 05343 0 07400 4 04236 AC019 TSX SUBCOM.4 WRKSC AND CONTINUE F2518860	05321	-0	40300	•	05231		SHE	DOTAD	TEST TO SEE IF THIS IS		F2518690
05323 -0 10000 0 05315 AC016 TNZ AC018 05324 -0 53400 1 03652 LXD TAG3 +1 IF IT IS PROCEED TO F2518710 05325 3 00000 1 05340 TXH AC018 +1 +0 COMPILE PROPER INST F2518720 05326 0 50000 0 03652 CLA TAG3 NO CURRENT TG, USE NEW TG. F2518730 05327 0 77100 0 00013 ARS 11 CHECK RESET TAG BIT F2518740 05330 0 76000 0 00001 LBT OR INSERTED COUNTER. F2518750 05331 0 02000 0 05334 TRA AC0161 RESET TYPE ENTRY, USE NEW TAG. F2518750 05332 0 07400 4 04230 TSX ENTR +4 CTR. TYPE ENTRY, SIMULATE F2518770 05333 0 02000 0 05343 TRA AC020 WRKSC AND CONTINUE. F2518780 05334 0 50000 0 03652 AC0161 CLA TAG3 RESET TYPE ENTRY 05335 -0 32000 0 05153 ANA 11BITS LAY OUT TAU ENTRIES F2518800 05336 0 07400 4 04236 TSX SUBCOM +4 05337 0 02000 0 05355 TRA AC021 DECRENENT AND CONTINUE. F2518800 05340 0 50000 0 03652 AC018 CLA TAG3 CURRENT TAG VALID, LAY F251880 05341 0 77100 0 00022 ARS 18 OUT TAU DNTRIES INTO F2518840 05342 0 07400 4 04236 AC019 TSX SUBCOM +4 05343 0 07400 4 04236 AC019 TSX SUBCOM +4 05343 0 07400 4 04236 AC019 TSX SUBCOM +4 05343 0 07400 4 04236 AC019 TSX SUBCOM +4 05343 0 07400 4 04236 AC019 TSX SUBCOM +4 05343 0 07400 4 04236 AC020 TSX N1STET +4 05343 0 07400 4 04236 AC020 TSX N1STET +4 05360 TXD TAG STAR TAG SUBCOM +4 05343 0 07400 4 04236 AC020 TSX N1STET +4 05360 TXD TAG STAR TAG SUBCOM +4 05360 TXD TAG STAR	05322	Ŭ	40200	Ň	05230	10016	TN7	AC010:	THE OUTERMOST DO.		F2518700
05324 -0 53400 1 03652	05323	-0	10000	Ü	05315	ACOIO	1142	TAC2 - 1	TE IT IS PROCEED TO		F2510710
05325 3 00000 1 05340	05324	-0	53400	1	03652		LXU	1AG391	COMPLIE PROPER INCT.		E2510710
05326 0 50000 0 03652 CLA TAG3 NO CURRENT 1G; USE NEW 1G. 05327 0 77100 0 00013 ARS 11 CHECK RESET TAG BIT F2518750 05330 0 76000 0 00001 LBT OR INSERTED COUNTER. 05331 0 02000 0 05334 TRA AC016I RESET TYPE ENTRY; USE NEW TAG. 05332 0 07400 4 04230 TSX ENTR; 4 CTR. TYPE ENTRY; SIMULATE F2518760 05333 0 02000 0 05343 TRA AC020 WRKSC AND CONTINUE. 05334 0 50000 0 03652 AC016I CLA TAG3 RESET TYPE ENTRY 05335 -0 32000 0 05153 ANA 11BITS LAY OUT TAU ENTRIES F2518790 05336 0 07400 4 04236 TSX SUBCOM; 4 05337 0 02000 0 05355 TRA AC021 DECRENENT AND CONTINUE. 05340 0 50000 0 03652 AC018 CLA TAG3 CURRENT TAG VALID; LAY 05341 0 77100 0 00022 ARS 18 OUT TAU DNTRIES INTO F2518840 05342 0 07400 4 04236 AC019 TSX SUBCOM; 4 05343 0 07400 4 04236 AC019 TSX SUBCOM; 4 05343 0 07400 4 04560 AC020 TSX NISTET; 4	05325	3	00000	1	05340		IXH	ACU189190	COMPTEE PROPER INSTA		F2510720
05327 0 77100 0 00013 ARS 11 CHECK RESET TAG BIT OR INSERTED COUNTER. F2518750 05331 0 02000 0 05334 TRA AC016I RESET TYPE ENTRY, USE NEW TAG. F2518760 05332 0 07400 4 04230 TSX ENTR, 4 CTR. TYPE ENTRY, SIMULATE F2518770 05333 0 02000 0 05343 TRA AC020 WRKSC AND CONTINUE. F2518780 05334 0 50000 0 03652 AC016I CLA TAG3 RESET TYPE ENTRY 05335 -0 32000 0 05153 ANA 11BITS LAY OUT TAU ENTRIES F2518800 05336 0 07400 4 04236 TSX SUBCOM, 4 F2518800 05337 0 02000 0 05355 TRA AC021 DECRENENT AND CONTINUE. F2518820 05340 0 50000 0 03652 AC018 CLA TAG3 CURRENT TAG VALID, LAY F2518820 05341 0 77100 0 00022 ARS 18 OUT TAU DNTRIES INTO F2518840 05342 0 07400 4 04236 AC019 TSX SUBCOM, 4 WRKSC AND CONTINUE F2518860	05326	0	50000	0	03652		CLA	1AG3	NO CURRENT TO USE NEW 194		F 2 2 1 8 7 3 U
05330	05327	0	77100	0	00013		ARS	11	CHECK RESET TAG BIT		F2518740
05331 0 02000 0 05334 TRA AC0161 RESET TYPE ENTRY, USE NEW TAG. 05332 0 07400 4 04230 TSX ENTR,4 CTR. TYPE ENTRY, SIMULATE F2518770 05333 0 02000 0 05343 TRA AC020 WRKSC AND CONTINUE. 05334 0 50000 0 03652 AC0161 CLA TAG3 RESET TYPE ENTRY 05335 -0 32000 0 05153 ANA 11BITS LAY OUT TAU ENTRIES F2518800 05336 0 07400 4 04236 TSX SUBCOM,4 05337 0 02000 0 05355 TRA AC021 DECRENENT AND CONTINUE. 05340 0 50000 0 03652 AC018 CLA TAG3 CURRENT TAG VALID, LAY F2518820 05341 0 77100 0 00022 ARS 18 OUT TAU DNTRIES INTO F2518840 05342 0 07400 4 04236 AC019 TSX SUBCOM,4 05343 0 07400 4 04236 AC019 TSX SUBCOM,4 05343 0 07400 4 04560 AC020 TSX N1STET,4 F2518760 CTR. TYPE ENTRY, USE NEW TAG. F2518770 CTR. TYPE ENTRY, USE NEW TA	05330	0	76000	0	00001		LBT		OR INSERTED COUNTER.		F2518750
05332	05331	0	02000	0	05334		TRA	AC016I	RESET TYPE ENTRY, USE NEW TAG.		F2518760
05333	05332	0	07400	4	04230		TSX	ENTR,4	CTR. TYPE ENTRY: SIMULATE		F2518770
05334	05333	Ō	02000	0	05343		TRA	AC020	WRKSC AND CONTINUE.		F2518780
05335 -0 32000 0 05153 ANA 11BITS LAY OUT TAU ENTRIES F2518800 05336 0 07400 4 04236 TSX SUBCOM,4 05337 0 02000 0 05355 TRA AC021 DECRENENT AND CONTINUE. F2518820 05340 0 50000 0 03652 AC018 CLA TAG3 CURRENT TAG VALID, LAY F2518830 05341 0 77100 0 00022 ARS 18 OUT TAU DNTRIES INTO F2518840 05342 0 07400 4 04236 AC019 TSX SUBCOM,4 WRKSC AND CONTINUE F2518850 05343 0 07400 4 04560 AC020 TSX N1STET,4	05334	õ	50000	ŏ	03652	AC016I	CLA	TAG3	RESET TYPE ENTRY		F2518790
05336 0 07400 4 04236 TSX SUBCOM,4 05337 0 02000 0 05355 TRA AC021 DECRENENT AND CONTINUE. F2518820 05340 0 50000 0 03652 AC018 CLA TAG3 CURRENT TAG VALID, LAY F2518830 05341 0 77100 0 00022 ARS 18 OUT TAU DNTRIES INTO F2518840 05342 0 07400 4 04236 AC019 TSX SUBCOM,4 WRKSC AND CONTINUE F2518850 05343 0 07400 4 04560 AC020 TSX N1STET,4	05225	-0	32000	ō	05153		ANA	11BITS	LAY OUT TAU ENTRIES		F2518800
05337 0 02000 0 05355 TRA AC021 DECRENENT AND CONTINUE. F2518820 05340 0 50000 0 03652 AC018 CLA TAG3 CURRENT TAG VALID, LAY F2518830 05341 0 77100 0 00022 ARS 18 OUT TAU DNTRIES INTO F2518840 05342 0 07400 4 04236 AC019 TSX SUBCOM,4 WRKSC AND CONTINUE F2518850 05343 0 07400 4 04560 AC020 TSX N1STET,4	05225	Ŏ	07400	4	04236		TSX	SUBCOM • 4			F2518810
05340	02220	~	01700	^	05355		TRA	AC021	DECRENENT AND CONTINUE.		F2518820
05341 0 77100 0 00022 ARS 18 OUT TAU DNTRIES INTO F2518840 05342 0 07400 4 04236 AC019 TSX SUBCOM: 4 WRKSC AND CONTINUE F2518850 05343 0 07400 4 04560 AC020 TSX N1STET: 4 F2518860	07331	٥	50000	~	02452	AC018	CLA	TAG3	CURRENT TAG VALID. LAY		F2518830
05341 U 7/100 U 00022 RRS 10 075342 O 07400 4 04236 AC019 TSX SUBCOM;4 WRKSC AND CONTINUE F2518850 F2518860	05340	0	20000	Ŏ	00002	WC010	APC	19	OUT TAU DATRIES INTO		F2518840
05342 0 07400 4 04236 ACU19 13X SUBCOMP4 WAXSC AND CONTINUE F2518850 F2518860	05341	0	11100	Ú	00022	10010	TCV	CURCOM-A	WOKEC AND CONTINUE		F2510050
05343 0 07400 4 04560 ACUZU 15% NISTEL194 F2518860	05342	0	07400	4	04236	AC019	TCV	ALCTET . A	HUNGE WIN COULTINGE		E2610040
	05343	0	07400	4	04560	ACUZU	124	N131C194			2310000

05344	0	50000	0 0525	;	CLA	N1SBX	VALUE IS CONSTANT VARIABLE, TRA ACO30. COMPUTE LOAD VALUE AND PLACE IN FIXCON. FIXCON LOCATION SYMBOL. CONTINUE. LXD ADDRESS TO BCD ZERO. LXD FILL OUT LOCATION AND TG WORDS. PLACE LXD ADDRESS IN ORO TABLE. RELATIVE PART OF FIXCON NAME ADDRESS. RELATIVE ADDRESS. TEST LOCATION INDICATOR. A LOCATION MUST BE ASSIGNED FOR 1ST LXD COMPILED FOR AN ALPHA. PUT IN DOFILE. VARIABLE CASE, THE BITS FOR DEFINING A SUB BY A DO OR A RELCON OR BOTH ARE ISOLATED IN 3 SEPARATE WORDS, DEFDO, RELCO, AND ORDEDO. IF CONSTANT LOAD, TRA AC100+2. IF VARIABLE LOAD, FILL ORO TABLE. SI NOT DEFINED. SI DEFINED. STO SYMBOL IN ORO+1. REPEAT FOR S2. S2 NOT DEFINED. S2 DEFINED. PUT SUBSCRIPT SYMBOL IN ORO+4 AND DI SYMBOL IN ORO+7. REPEAT FOR S3 NOT DEFINED. S3 DEFINED. PUT SUBSCRIPT	F2518870 F2518880
05345	-0	10000	0 0540)	TNZ	AC030	VARIABLE I CAD	F2518890
05346	0	07400	4 0440	5	TSX	TELC,4	COMPUTE LOAD	F2518900
05347	0	50000	0 0524	5	CLA	ERTX01	VALUE	F2518910
05350	0	76700	0 0002	2	ALS	18	AND PLACE	F2518020
05351	0	40000	0 0506	t	ADD	LIDEC	IN.	E2510020
05352	0	07400	4 0460	l	TSX	FIXCON #4	FIXCON.	F2518940
05353	0	60100	0 0520)	STO	CIL02	FIXCON LOCATION SYMBOL.	F2518050
05354	0	02000	0 0535	7	TRA	AC022	CONTINUE	F2518960
05355	0	50000	0 0510	AC021	CLA	BCD0		F2518070
05356	0	60100	0 0520)	STO	CIL02	LXD ADDRESS TO BCD ZERO.	F2518980
05357	0	50000	0 0505	L AC022	CLA	L(LXD)		F2510900
05360	0	60100	0 0517	7	STO	CIL01	LXD	F2510000
05361	0	07400	4 0713	L	TSX	CIL031,4	FILL OUT LOCATION AND TO WORDS.	F2519010
05362	0	50000	0 0520)	CLA	CIL02	PLACE LXD ADDRESS	F2519010
05363	0	60100	0 0762	L	STO	ORO00+27	IN ORD TABLES	F2510020
05364	0	73400	4 0000)	PAX	0 • 4	RELATIVE PART OF FIXCON NAME	F2519040
05365	-0	32000	0 0510	+	ANA	60NES		F2510050
05366	0	60100	0 0520)	STO	CIL02	ADDRESS.	F2519050
05367	-0	63400	4 0520	ì	SXD	CIL03,4	RELATIVE ADDRESS.	F2519000
05370	0	50000	0 0522	2	CLA	LOCIND	TEST LOCATION INDICATOR.	F2519010
05371	0	10000	0 0537	5	TZE	AC024		F2519000
05372	0	40200	0 0512	6	SUB	L(1)	A A COLUMN THE TOTAL TOT	F2519090
05373	. 0	60100	0 0522	2	STO	LOCIND	A LOCATION MUST BE	F2519100
05374	0	50000	0 0522	+	CLA	A	ASSIGNED FOR ISI LXD	F2519110
05375	0	60100	0 0517	5	STO	CILOO	COMPILED FOR AN ALPHA	F2510130
05376	0	07400	4 0434	5 AC024	TSX	CIT+4	PUI IN DOFICE.	F2510140
05377	O	76100	0 0000)	NOP		WARTARIE CACE. THE RITE FOR	F2519150
05400	0	50000	0 0365	3 AC030	CLA	TAG4	ANIARIE CASE LUE BILS LON	F2519160
05401	0	77100	0 0000	3	ARS	3	DEFINING A SUB BY A DO OK	F2519170
05402	-0	32000	0 0507	5	ANA	L(7)	A RELCON OR DOTH ARE	F2519180
05403	0	60100	0 0521	€	STO	RELCO	ISULATED IN 3 SEPARATE	F2519190
05404	0	50000	0 0365	3	CLA	TAG4	WORDS, DEFDO, RELCO, AND	F2519200
05405	-0	32000	0 0507	5	ANA	L(7)	ORDEDO.	F2519210
05406	0	60100	0 0525	3	510	DEFUO		F2519220
05407	-0	50100	0 0521)	ORA	RELCO		F2510230
05410	0	60100	0 0525	2	510	OREDO	TE CONCTANT LOAD.	F2519240
05411	0	50000	0 0525	+	CLA	NISBX	TDA ACIONEZ.	F2519250
05412	0	10000	0 0556	7 .	TZE	AC100+2	TE MADIADIE LOAD, EILL	F2519260
05413	0	50000	0 0512	?	CLA	L(2)	ODO TABLE.	F2519270
05414	0	07400	4 0713	7	TSX	BITP 94	CI NOT DEFINED.	F2519280
05415	0	02000	0 0541	7	TRA	AC040	SI NOI DEFINED. STO SYMBOL IN OPOLI.	F2519290
05416	0	60100	0 0756	7	STO	ORO00+1	SI DEFINED. SIO SIMBOL IN OROTIO	F2519200
05417	0	50000	0 0512	5 AC040	CLA	L(1)	REPEAT FOR	F2519310
05420	0	07400	4 0713	7	TSX	BITP 4	SZ4	F2510220
05421	0	02000	0 0542	5	TRA	AC046	SZ NOI DEPINED.	F2510230
05422	0	60100	0 0757	2	STO	ORO00+4	SZ DEFINEDO PUT SUBSCRIPT	F2519330
05423	0	50000	0 0364	4	CLA	WRKSC+6	SYMBOL IN ORU+4 AND	F2519340
05424	0	07400	4 0460	Ī	TSX	FIXCON,4	DI SYMBOL	E2610240
05425	0	60100	0 0757	5	STO	ORO00+7	IN ORO+7	F2510270
05426	0	50000	0 0513	3 AC046	CLA	L(0)	REPEAT FOR	F2510290
05427	0	07400	4 0713	7	TSX	BITP,4	AND DEFINED	F2519300
05430	0	02000	0 0544	3	TRA	AC048	S3 NOT DEFINED.	F2610400
05431	0	60100	0 0761	3	STO	ORO00+21	23 DELINED. AND PORSCRIAL	1.2313400

05432	0	56000	n	03644		LDQ	WRKSC+6	SYMBOL IN ORO+21			F2519410
		20000					WRKSC+7	AND			F2519420
		76700				ALS	17	PUT		-	F2519430
		07400				TSX	FIXCON • 4	D1D2 IN			F2519440
		60100				STO	ORO00+24	ORO+24.			F2519450
		50000				CLA	WRKSC+6				F2519460
		07400				TSX	FIXCON•4	OBTAIN SYMBOL FOR DI			F2519470
		60100				STO	ORO00+7	AND STORE IN ORO+7.			F2519480
05442	Õ	76000	Ŏ	00140		PSE	96	TURN OFF SENSE LIGHTS.			F2519490
05443	0	07400	4	07172	AC048	TSX	COSE • 4	TEST COEFFS GREATER THAN 1.			F2519500
		50000				CLA	OPMSK				F2519510
		32000				ANA	TAG4	COEFS, 011 RELCONS, 100 CUPE.			F2519520
05446	-0	10000	0	05472		TNZ	AC049 TAG21+1	SOME OF ABOVE EXIST.			F2519530
		53400				LXD	TAG21+1	NONE OF ABOVE EXIST.			F2519540
		00000				TXL	AC048+7,1,0	IF S2 DEF BY DO.			F2519550
05451	-0	50000	1	01100		CAL	DOTAGZ+2+1	ISOLATE NI.			F2519560
05452	-0	53400	1	03651		LXD	TAG22:1	IF S3 DEF BY DO:			F2519570
05453	-3	00000	1	05455		TXL	AC048+10+1+0 DOTAGZ+2+1	OR N1S OF S2 AND S3.			F2519580
05454	-0	50100	1	01100		ORA	DOTAGZ+2,1	IF EITHER N1 IS GREATER			F2519590
		40200				SUB	L(1)	THAN 1. RETURN.			F2519600
05456	0	10000	0	05460		TZE	AC0481	IS S1 IS			F2519610
05457	0	12000	0	05472		TPL	AC048I AC049 TAG2:1	DEFINED BY A DO.			F2519620
05460	-0	53400	1	03647	AC0481	LXD	TAG2•1	IS/LATE N1.			F2519630
05461	-3	00000	1	05464		TXL	AC0481+4,1,0	IF NOT ISOLATE			F2519640
05462	0	50000	1	01100		CLA	DOTAGZ+2+1	S1 (BCD).			F2519650
05463	0	02000	0	05465			AC0481+5				F2519660
05464	0	50000	0	03637		CLA	WRKSC+1				F2519670
05465	0	60100	0	05200			CIL02	STO SI OR NI SYMBOL.			F2519680
		07400					CIL03I •4	FILL OUT			F2519690
		50000					L(LXD)	COMPILED INSTRUCTION			F2519700
		60100					CIL01	WORDS AND CONTINUE			F2519710
05471	0	02000	0	05564			AC100-1	TO INIT PORTION:			F2519720
							L(2) •1				F2519750
•		50000					OREDO	IS LEFT SUB A RELCON,			F2519740
		32000					L(4)	DORC OR DOSUB			F2519720
		10000					AC049A	NO + COMPILE CLA + SUB +			F251970U
		53400					TAG2+2.	YES, IS II A DOSUB.			F2519770
		00000					AC049B,2,0	NO.			F2519700
		50000					DOTAGZ+2+2	AF24 12 MI(21)=14			F2519790
		40200					L(1)		•		F2519600
		10000					AC049B	NO •			F2510020
					AC049A		KLX01	COMPTLE CLA. SUR.			F2510830
		07400					CREDO	COMPILE CLAY SOB!			F2519840
					AC049B	ADS	OREDO	DEETHITION.			F2519850
		77100				ARS	2	OF C1.			F2519860
•		76000				TDA	AC064 L(3)•1 OP2•4	SI IS NOT DEFAA TAKE SZA			F2519870
-		02000				IKA	1 (3) 41	SI DEFINEDA GO TO			F2519880
		53400				TCV	0D2.4	OPTIMIZING ROUTINE			F2519890
		07400				124	L(2) •1	AT LEAST 4 COMP INST.			F2519900
		53400				MSE	97	TEST ON COEF			F2519910
		76000					AC050	GREATER THAN 1.			F2519920
05516		02000					AC0501+1+2	without the trees of			F2519930
05517					AC050		KLX02	L(LX102)			F2519940
02211	Ů,	20000	U	01333	ACODO			SYMBOL IN ORO+21 AND PUT D1D2 IN ORO+24. OBTAIN SYMBOL FOR D1 AND STORE IN ORO+7. TURN OFF SENSE LIGHTS. TEST COEFFS GREATER THAN 1. COEFS, 011 RELCONS, 100 CUPE. SOME OF ABOVE EXIST. NONE OF ABOVE EXIST. IF S2 DEF BY DO, ISOLATE N1. IF S3 DEF BY DO, OR N1S OF S2 AND S3. IF EITHER N1 IS GREATER THAN 1, RETURN. IS S1 IS DEFINED BY A DO, IS/LATE N1. IF NOT ISOLATE S1 (BCD). STO S1 OR N1 SYMBOL. FILL OUT COMPILED INSTRUCTION WORDS AND CONTINUE TO INIT PORTION, IS LEFT SUB A RELCON, DORC, OR DOSUB. NO, COMPILE CLA, SUB. YES, IS IT A DOSUB. NO. COMPILE CLA, SUB. DEFINITION. OF S1. S1 IS NOT DEF., TAKE S2. S1 DEFINED, GO TO OPTIMIZING ROUTINE. AT LEAST 4 COMP INST. TEST ON COEF GREATER THAN 1. L(LXIO2)			

05520					,				
05521 0 50000 0 07492 AC0901 CLA KLX021		05520 0	02000 0	05522		TRA	AC050I+1		F2519950
05522 0 07400 4 07271 TSX LKC+4 COMPILER. F25199 05524 0 77100 0 00001 ARS 1 S2 F25199 05525 0 77000 0 00001 BR		05521 0	50000 0	07352	AC050I	CLA	KLX02I	L(LX105)	F2519960
05522 0 50000 0 07525 ACC044 CLA ØREDO 05525 0 77100 0 000001 ARS 1 S2 DEFINED. 05526 0 76000 0 00001 LBT DEFINED. 05526 0 76000 0 05540 TRA ACO80 S2 NOT DEFINED. 05527 0 53400 1 05127 LXA L(2):1 CALL OPZ ROUTING. 05531 0 55400 1 05126 LXA L(2):1 CALL OPZ ROUTING. 05532 0 76000 0 00453 CLA KLX03 VES. 05533 0 50000 0 07354 CLA KLX03 VES. 05533 0 50000 0 07354 CLA KLX03 VES. 05533 0 50000 0 07356 CLA KLX03 VES. 05534 0 50000 0 07556 CLA KLX03 VES. 05554 0 50000 0 05527 CLA KLX03 VES. 05554 0 54000 0 05126 LXA L(1):1 CALL OPZ ROUTINE F25200 05544 0 07400 4 04670 TSX 0P2:4 FOR OPTIMIZATION. F25201 05544 0 07400 4 04670 TSX 0P2:4 FOR OPTIMIZATION. F25201 05545 0 53400 1 05106 LXA L(6):1 COMPILING COUNTER. F25201 05546 0 07400 0 00143 MSE 99 TEST FOR COEF GREATER THAN 1. F25201 05546 0 07400 0 07555 CLA KLX051 CSPCK COMPILE F25201 05546 0 07400 0 07557 CLA KLX051 CSPCK COMPILE F25201 05554 0 07400 0 07557 CLA KLX051 CSPCK COMPILE F25201 05554 0 07400 0 07557 CLA KLX051 CSPCK COMPILE F25201 05555 0 05000 0 07557 CLA KLX051 CSPCK COMPILE F25201 05555 0 05000 0 07620 CLA KLX051 CSPCK COMPILE F25202 05550 0 05000 0 07620 CLA KLX051 CSPCK COMPILE F25202 05550 0 05000 0 07620 CLA KA000+26 CSPCK COMPILE F25202 05551 0 05000 0 07620 CLA KA000+26 CSPCK COMPILE F25203 05551 0 05000 0 07620 CLA KA000+26 CSPCK COMPILE F25203 05551 0 05000 0 07620 CLA KA000+26 CSPCK COMPILE F25203 05551 0 05000 0 07620 CLA KA000+26 CSPCK COMPILE F25203 05551 0 05000 0 07620 CLA KA000+26 CSPCK COMPILE F25204 05551 0 05000 0 076		05522 0	07400 4	07271		TSX	LXC,4	COMPILER.	F2519970
05522		05523 0	50000 0	05252	AC064	CLA	OREDO		F2519980
05525 0 76000 0 00001 LBT DEFINED, \$2200 05526 TRA ACO80 \$2 NOT DEFINED, \$3. \$72200 05527 0 53400 1 05127 LXA L(2):1 CALL OPZ ROUTINE \$72200 05530 0 074004 0 40670 TXX OPZ-4 TO OPTINIZE. \$72200 05531 0 53400 1 05106 LXA L(6):1 COUNTER FOR COMPILING. \$72200 05531 0 53400 1 05537 TXA ACO80 CLA KLX031 TXA COST 05530 0 07400 0 05540 TXA ACO80 TXA COST 05530 0 07400 0 05540 TXA COST 05551 0 05000 0 07356 ACO88 CLA KLX031 TXA COST 05540 0 05000 0 07556 TXA ACO80 CLA COST 05540 0 05000 0 07556 TXA ACO80 CLA COST 05550 0 05000 0 07555 TXA ACO80 TXA COST 05551 0 05000 0 07555 CLA KLX03 TXA ACO84 CLA KLX03 TXA COST 05551 0 05000 0 07555 CLA KLX03 TXA COST 05551 0 05000 0 07555 CLA KLX03 TXA COST 05551 0 07400 4 07121 TXA COST 05551 CLA KLX03 TXA COST 05551 0 07400 4 07121 TXA COST 05551 CLA KLX03 TXA COST 05551 0 07400 4 07121 TXA COST 05551 CLA KLX03 TXA COST 05551 0 05000 0 07355 CLA KLX03 TXA COST 05551 CLA KLX05 T		05524 0	77100 0	00001		ARS	1	\$2	F2519990
D5527 0 0 2000 0 0 05540		05525 0	76000 0	00001		LBT		DEFINED.	F2520000
05527 0 53400 1 05127		05526 0	02000 0	05540		TRA	AC080	S2 NOT DEFINED. S3.	F2520010
05530 0 07400 4 04670 TSX 0P214 TO OPTIMIZE.		05527 0	53400 1	05127		LXA	L(2) •1	CALL OP2 ROUTINE	F2520020
05531 0 53400 1 05106		05530 0	07400 4	04670		T5X	OP2 9 4	TO OPTIMIZE.	F2520030
05532 - 0 76000 0 00142 MSE 98 IS CORP GREATER THAN 1: P.2200 05534 0 02000 0 05536 CTRA AC068 YES. P.2200 05534 0 05000 0 07354 CLA KLX03 YES. TINCREMENT COMPILING COUNTER: P.2200 05536 0 05000 0 07356 AC068 CLA KLX031 TSK LXC.44 COMPILE S2 LOAD VALUE. P.2200 05540 0 07400 4 07271 TSK LXC.44 COMPILE S2 LOAD VALUE. P.2200 05540 0 07400 0 00001 LBT F.2200 05540 0 07400 4 075126 LXA L(11).1 CALL OP2 ROUTINE F.2201 05544 0 07400 4 04670 TSK DP2.44 FOR OPTIMIZATION. P.2201 05544 0 07400 4 04670 TSK DP2.44 FOR OPTIMIZATION. P.2201 05544 0 07400 4 04670 TSK DP2.44 FOR OPTIMIZATION. P.2201 05544 0 07400 0 00143 MSE 99 TEST FOR COEF GREATER THAN 1. P.2201 05544 0 07400 0 00143 MSE 99 TEST FOR COEF GREATER THAN 1. P.2201 05545 0 05000 0 07355 CLA KLX051 C3 GREATER THAN 1. P.2201 05550 0 05000 0 07355 CLA KLX051 C3-1. COMPILE F.2201 05550 0 05000 0 07355 CLA KLX051 C3-1. COMPILE F.2201 05554 0 07400 4 07271 TSK LXC.4 BLOCK. F.2202 05555 0 05000 0 07357 AC084 CLA KLX051 C3-1. COMPILE F.2202 05555 0 07400 4 07131 AC096 TSK CLL.05 BLOCK. F.2202 05555 0 07400 4 07131 AC096 TSK CLL.05 BLOCK. F.2202 05555 0 0000 0 07501 CLA LKLX051 C3-1. COMPILE KLX051 F.2202 05555 0 0000 0 05051 CLA LKLX051 C3-1. COMPILE F.2202 05556 0 0000 0 05051 CLA LKLX051 C3-1. COMPILE F.2202 05556 0 0000 0 07620 CLA GROO0+26 CLA GROO0+27 C1. CA GROO0+28 CLA TAG2+3-1 CHECK FOR F.2203 05570 - 0 34000 1 03652 CLA TAG2+3-1 CHECK FOR F.2203 05570 - 0 34000 1 03652 CLA TAG2+3-1 CHECK FOR F.2203 05570 - 0 34000 1 03652 CLA TAG2+3-1 CHECK FOR F.2203 05577 - 0 34000 1 03652 CLA TAG2+3-1 CHECK FOR F.2203 05577 - 0 34000 1 03652 CLA TAG2+3-1 CHECK FOR F.2203 05577 - 0 34000 1 03652 CLA TAG2+3-1 TSA CLACH F.2203 COMPARE F.2204 05600 0 00000 0 03652 CLA TAG2+3-1 TSA CLACH F.2204 05600 0 00000 0 03652 CLA TAG2+3-1 TSA CLACH F.		05531 0	53400 1	05106		LXA	L(6),1	COUNTER FOR COMPILING.	F2520040
05533 0 02000 0 05536		05532 -0	76000 0	00142		MSE	98	IS COEF GREATER THAN I.	F2520050
05534 0 50000 0 07354 CLA RLX03 TESS. 05536 0 50000 0 07356 ACO68 CLA KLX031 TSX LXC+4 COMPILE S2 LOAD VALUE. 05537 0 707400 4 07271 TSX LXC+4 COMPILE S2 LOAD VALUE. 05540 0 50000 0 05252 ACO80 CLA RLX031 F25201 05542 0 02000 0 05554 TRA ACO96 S3 NOT DEFINED, EXIT. 05543 0 53400 1 05126 LXA L(11)*1 CALL DP2 ROUTINE F25201 05544 0 07400 4 04670 TSX DP2*4 FOR OPTIMIZATION. 05545 0 53400 1 05106 LXA L(6)*1 COMPILING COUNTER. 05546 -0 76000 0 00143 MSE 99 TEST FOR COEF GREATER THAN 1. F25201 05547 0 02000 0 05552 TRA ACO84 NONE. 05550 0 50000 0 07355 CLA KLX05 C3 GREATER THAN 1. COMPILE F25201 05554 0 50000 0 07355 CLA KLX05 C3 GREATER THAN 1. COMPILE F25201 05554 0 50000 0 07357 ACO84 CLA KLX051 C3=1, COMPILE KLX051 F25202 05554 0 70000 0 07357 ACO84 CLA KLX051 C3=1, COMPILE KLX051 F25202 05555 0 05000 0 07357 ACO84 CLA KLX051 C3=1, COMPILE KLX051 F25202 05555 0 05000 0 07517 TST C(1001) 05555 0 05000 0 05017 TST C(1001) 05556 0 05000 0 07620 CLA GROOD+26 ERASABLE OBJECT TIME SYMBOL. 05560 0 05000 0 07620 CLA OROOD+26 F25202 05561 -0 32000 0 05010 AAA 60NES F25202 05562 0 05000 0 07620 CLA OROOD+26 F25203 05564 0 07400 4 04345 TSX CITHA PUT IN BUFFER. 05565 0 05000 0 07620 CLA OROOD+26 F25203 05567 0 -053400 1 05207 AC109 SXD CILO311 05567 0 -053400 1 05007 SXD CILO311 05057 0 -053400 1 05007 SXD		05533 0	02000 0	05536		IKA	ACU68	NO	F2520060
05533 1 00002 1 05537 1 00002 1 05536 1 1 00002 1 05536 1 00002 1 05525 1 00000 0 05525 1 00000 0 05554 1 0 05504 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554 1 0 05554		05534 0	50000 0	07354		CLA	KLX03	THE DEMENT COMPLIANCE COUNTED	F2520070
05536 0 50000 0 07355 ALOS CLA KLASSI 05540 0 50000 0 05252 ACO80 CLA OREDO 05541 0 76000 0 00001 05541 0 76000 0 00001 05542 0 02000 0 05554 TRA ACO96 05543 0 35400 1 05126 05544 0 07400 4 04670 TSX 0P2*4 FOR OPTIMIZATION. 05544 0 07400 4 04670 TSX 0P2*4 FOR OPTIMIZATION. 05545 0 53400 1 05106 LXA L(1):1 05546 -0 76000 0 00143 MSE 99 TEST FOR COEF GREATER THAN 1. 05547 0 2000 0 05552 TRA ACO84 NONE. 05550 0 50000 0 07355 CLA KLX05 C3 GREATER THAN 1. COMPILE F25201 05554 0 50000 0 07355 TX ACO84 CLA KLX05 C3 GREATER THAN 1. COMPILE F25201 05551 0 00000 0 07357 ACO84 CLA KLX051 C3=1. COMPILE KLX051 F25202 05552 0 50000 0 07357 ACO84 CLA KLX051 C3=1. COMPILE KLX051 F25202 05555 0 50000 0 07357 ACO84 CLA KLX054 C3=1. COMPILE KLX051 F25202 05555 0 50000 0 07575 TX TA CO84 CLA KLX051 C3=1. COMPILE KLX051 F25202 05555 0 50000 0 07577 ACO84 CLA KLX051 C3=1. COMPILE KLX051 F25202 05555 0 50000 0 07577 ACO84 CLA KLX051 C3=1. COMPILE KLX051 F25202 05555 0 50000 0 07577 ACO84 CLA KLX051 C3=1. COMPILE KLX051 F25202 05555 0 50000 0 07577 ACO84 CLA KLX051 C3=1. COMPILE KLX051 F25202 05555 0 50000 0 07577 ACO84 CLA KLX051 C3=1. COMPILE KLX051 F25202 05555 0 50000 0 07577 ACO84 CLA KLX051 C3=1. COMPILE KLX051 F25202 05555 0 50000 0 07577 ACO84 CLA KLX051 C3=1. COMPILE KLX051 F25202 05556 0 50000 0 07507 ACO84 CLA KLX051 C3=1. COMPILE KLX051 F25202 05556 0 50000 0 07507 ACO84 CLA KLX051 ACO84		05535 1	00002 1	05531	46068	IVI	ACU00719192	THEREMENT COMPTETING COUNTERS	F2520000
13		05536 0	50000 0	0/356	ACUSS	TEV	LYCA	COMPTLE CO LOAD VALUE.	F2520090
105540		05537 0	07400 4	0/2/1	46000	194	OREDO	COMPTLE 32 LOAD VALUE.	F2520100
05541 0 2000 0 05554 TRA AC096 S3 NOT DEFINED, EXIT. F25201		05540 0	50000 0	05252	ACOSO	LET	UREDU	•	F2520110
05542 0 0200 0 05594		05541 0	76000 0	00001		TDA	AC006	S2 NOT DEEINED. EVIT.	F2520120
05544 0 07400 4 04670 TSX 0P2+4 FOR OPTIMIZATION. F25201 05545 0 53400 1 05106 LXA L(6)+1 COMPILING COUNTER. F25201 05545 0 53400 1 05106 LXA L(6)+1 COMPILING COUNTER. F25201 05554 0 02000 0 07355 TRA AC084 NONE. F25201 05557 0 02000 0 07355 CLA KLX05 C3 GREATER THAN 1. COMPILE F25201 05551 1 00002 1 05553 TXI AC084+1.1.2 KLX05 BLOCK. F25202 05552 0 50000 0 07357 AC084 CLA KLX051 C3=1, COMPILE KLX051 F25202 05553 0 07400 4 07271 TSX LXC.4 BLOCK. F25202 05554 0 07400 4 07131 AC096 TSX C1L031.4 COMPILE F25202 05555 0 50000 0 05501 CLA L(LXD) LXD. F25202 05556 0 60100 0 05177 S10 C1L01 LXD. F25202 05556 0 60100 0 07620 CLA 0R000+26 ERASABLE OBJECT TIME SYMBOL. F25202 05563 0 60100 0 05200 S10 CLA CR000+26 F25203 05564 0 07400 4 40345 TSX C1L03+1 PUT IN BUFFER. F25202 05565 0 50000 0 07620 CLA 0R000+26 F25203 05566 0 60100 0 05200 S10 CLA CLO 0R000+26 F25203 05567 0 -53400 1 05201 SXD C1L02 05557 0 -53400 1 05201 SXD C1L02 05557 0 -53400 1 05201 SXD C1L03 05570 -0 63400 1 05207 AC109 SXD XX11 CHCK FOR F25203 05571 -0 30000 2 07620 CLA 0R000+26 F25203 05572 -0 73400 2 00000 PDX 0.2 SXD XX11 CHCK FOR F25203 05573 -3 00000 2 05743 TXL AC160+2.0 PDS. NOT MOD. BY DO. F25203 05577 0 02000 0 05574 TRA AC110 TXX AC116+1+1 05577 0 02000 0 05574 TRA AC110 TXX AC116+1+1 05577 0 02000 0 05574 TRA AC110 TXX AC116-1+1 05603 0 00000 0 05574 TRA AC110 05601 0 50000 0 05574 TRA AC110 05602 -0 32000 0 05771 ANA AC1107 NAME OF TEST 05604 0 50000 0 05577 RA AC110 TRITE TITE TO TEST 05604 0 50000 0 05574 TRA AC110 05604 0 50000 0 05574 TRA AC110 05605 0 32000 0 05577 RA AC110 05606 0 00000 0 05577 RA AC110 TRITE TITE TO TRITE TITE TO TEST 05604 0 50000 0 05574 TRA AC110 05605 0 02000 0 05574 TRA AC110 05606 0 02000 0 05574 TRA AC110 05607 0 02000 0 05574 TRA AC110 05607 0 02000 0 05574 TRA AC110 05608 0 02000 0 05574 TRA AC110 05608 0 02000 0 05574 TRA AC110 05608 0 02000 0 05574 TRA AC110 05609 0 02000 0 0557		05542 0	52400 0	05334		IVA	1 (1) 67	CALL OP2 POLITINE	F2520140
05544 0 7400 1 05106		05544	23400 1	0/670		TCY	002.4	FOR OPTIMIZATION	F2520150
05545 - 0 76000 0 00143 MSE 99 TEST FOR COEF GREATER THAN 1: F25201 05547 0 02000 0 05552 TRA AC084 NONE. F25201 05551 1 00002 1 05553 TXI AC084+1:1:2 KLX05 BLOCK. F25202 05552 0 50000 0 07357 AC084 CLA KLX05: C3 GREATER THAN 1; COMPILE F25202 05553 0 07400 4 07271 TSX LXC.4 BLOCK. F25202 05554 0 07400 4 07131 AC096 TSX CIL031.4 COMPILE F25202 05555 0 50000 0 05051 CLA L(LXD) LXD. F25202 05556 0 60100 0 05177 STO CIL01 LXD. F25202 05556 0 60100 0 07520 CLA GRO00-26 ERASABLE OBJECT TIME SYMBOL. F25202 05563 0 60100 0 05104 ANA 60NES F25202 05564 0 07400 4 04345 TSX CII.03 PUT IN BUFFER. F25203 05565 0 50000 0 07620 AC100 CLA GRO00-27 05566 0 60100 0 07521 STO CIL02 F25203 05566 0 60100 0 07521 STO CIL03 PUT IN BUFFER. F25203 05565 0 50000 0 07620 AC100 CLA GRO00-27 05567 0-53400 1 05131 LXA L(3):1 PREPARE TO F25203 05567 0-53400 1 05131 LXA L(3):1 PREPARE TO F25203 05570 - 0 63400 1 05207 AC109 SXD AX:1 CHECK FOR F25203 05572 - 0 73400 2 00000 PDX 0:2 SAVE INDEX OF S. F25203 05573 - 3 00000 2 05743 TXA AC160-2:0 PDX 0:2 SAVE INDEX OF S. F25203 05577 0 0 02000 0 05743 TRA AC110 TXA AC1616:1:1 SXI AC1660-2:0 PDX 0:2 SAVE INDEX OF S. F25203 05560 0 02000 0 05743 TRA AC110 TXA AC1610 TXA AC160 TXA AC16		05544 0	57400 4 57400 1	04010		IVA	1.161.41	COMPILING COUNTER.	F2520160
05547 0 02000 0 05552 TRA AC084 05550 0 50000 0 07355 CLA KLX05 05551 0 05000 0 07355 CLA KLX05 05551 0 05000 0 07355 TX AC084 05552 0 50000 0 07357 AC084 07400 4 07271 TSX LXC,4 05554 0 07400 4 07271 TSX LXC,4 05555 0 50000 0 05551 CLA L(LX0) 05555 0 50000 0 05051 CLA L(LX0) 05555 0 50000 0 05051 CLA L(LX0) 05557 0 50000 0 05051 CLA L(LX0) 05556 0 07400 0 05177 STO CIL01 05560 0 73400 1 00000 PAX 0,1 05561 0 32000 0 05104 ANA 60NES 05562 -0 63400 1 05201 SXD CIL03,1 05563 0 60100 0 05200 STO CIL02 05564 0 07400 4 04345 TSX CIT,4 05565 0 05000 0 07620 CLA 0R000+26 05566 0 60100 0 07621 STO 0R000+27 05567 0 -53400 1 05131 LXA L(3),1 05570 -0 63400 1 05207 AC109 SXD AX,1 05570 -0 63400 0 0 05574 TRA AC160,20 05573 -0 73400 CRA TAG2+3,1 05570 -0 73400 CRA TAG		05545 0	76000 0	00143		MSF	09	TEST FOR COFF GREATER THAN 1.	F2520170
05550 0 50000 0 07355 CLA KLX05 05551 1 00002 1 05553 TXI AC084+1;1;2 05552 0 50000 0 0 07357 AC084 CLA KLX051 05553 0 07400 4 07271 TSX LXC;4 05554 0 07400 4 07271 TSX LXC;4 05555 0 50000 0 05517 CLA L(LXD) 05556 0 60100 0 05517 STO CILO1 05557 0 50000 0 07620 CLA QR000+26 ERASABLE OBJECT TIME SYMBOL. 05556 0 73400 1 00000 PAX 0;1 05561 -0 32000 0 05104 ANA 60NES 05562 0 63400 1 05201 SXD CILO3;1 05564 0 07400 4 04345 TSX CIT;4 05565 0 50000 0 07620 CLA QR000+26 05566 0 60100 0 07620 STO CILO2 05566 0 60100 0 05500 STO CILO2 05566 0 60100 0 07620 CLA QR000+26 05566 0 50000 0 07620 CLA QR000+26 05566 0 60100 0 07620 STO CILO2 05567 0 -53400 1 05207 AC109 SXD AX;1 05567 0 -53400 1 05207 AC109 SXD AX;1 05577 0 50000 1 03652 CLA TAG2+3;1 05573 -3 00000 2 05743 TXL AC160+2;0 05576 0 20000 1 03652 CLA TAG2+3;1 05575 0 34000 1 03652 CLA TAG2+3;1 05575 0 34000 1 03652 CLA TAG2+3;1 05575 0 34000 1 03652 CLA TAG2+3;1 05576 0 02000 0 05743 TXL AC160+2;0 05576 0 02000 0 05743 TXL AC160+2;0 05577 0 02000 0 05743 TRA AC110 EXCEPT 05577 0 02000 0 05774 TRA AC110 EXCEPT 05570 0 02000 0 05774 TRA AC110 FX EXCEPT 05570 0 02000 0 05774 TRA AC110 FX EXCEPT 05570 0 02000 0 05774 TRA AC110 FX EXCEPT 05570 0 02000 0 05774 TRA AC110 FX EXCEPT 05570 0 02000 0 05774 TRA AC110 FX EXCEPT 05570 0 02000 0 05774 TRA AC110 FX EXCEPT 05570 0 02000 0 05774 TRA AC110 FX EXCEPT 05570 0 02000 0 05774 TRA AC110 FX EXCEPT 05570 0 02000 0 05774 TRA AC110 FX EXCEPT 05570 0 02000 0 05774 TRA AC110 FX EXCEPT 05570 0 02000 0 05774 TRA AC110 FX EXCEPT 05570 0 02000 0 05774 TRA AC110 FX EXCEPT 05570 0 02000 0 05774 TRA AC110 FX EXCEPT 05570 0 02000 0 05774 TRA AC110 FX EXCEPT 05570 0 02000 0 05774 TRA AC110 FX		05546 -0	03000 0	05552		TRA	AC084	NONE .	F2520180
05551 1 00002 1 05553		05550 0	50000 0	07355		CLA	KL XO5	C3 GREATER THAN 1. COMPILE	F2520190
05552 0 50000 0 07357 AC084 CLA KLX051 C3=1, COMPILE KLX051 F25202 05553 0 07400 4 07271 T5X LXC,4 BLOCK. F25202 05555 0 07400 4 07131 AC096 T5X CILO31,4 COMPILE 05555 0 50000 0 05051 CLA (L(XD) LXD. F25202 05555 0 60100 0 05177 STO CILO1 F25202 05556 0 60100 0 05177 STO CILO1 F25202 05556 0 073400 1 00000 PAX 0,1 F25202 05561 -0 32000 0 05104 ANA 60NES F25202 05562 -0 63400 1 05201 SXD CILO3,1 F25202 05563 0 60100 0 05200 STO CILO2 F25203 05564 0 07400 4 04345 T5X CIT,4 PUT IN BUFFER. F25203 05565 0 50000 0 07620 AC100 CLA 0R000+26 F25203 05566 0 60100 0 07621 STO 0R000+27 F25203 05566 0 60100 0 07621 STO 0R000+27 F25203 05567 0 -0 63400 1 05207 AC109 SXD AX+1 CHECK FOR F25203 05570 -0 63400 1 05207 AC109 SXD AX+1 CHECK FOR F25203 05573 -3 00000 2 05743 TXL AC160,220 POS. NOT MOD. BY DO. F25203 05574 -2 00001 1 05601 AC110 TNX AC116,1,1 OS577 O 02000 0 05574 TRA AC110 EXCEPT F25203 05577 0 02000 0 05574 TRA AC110 EXCEPT F25203 05577 0 02000 0 05574 TRA AC110 EXCEPT F25204 05603 0 60100 0 05204 STO IEITG FOR THIS DO F25204 05603 0 60100 0 05204 STO IEITG FOR THIS DO F25204 05604 0 50000 0 03652 CLA TAG2+8,2 ISOLATE F25204 05605 0 30000 0 05171 ANA 6C107 NAME OF TEST F25204 05606 0 05000 0 03652 CLA TAG3 05607 0 02000 0 05574 TRA AC110 EXCEPT F25204 05607 0 02000 0 05574 TRA AC110 FX AC116,11 F25204 05607 0 02000 0 05574 TRA AC110 FX AC116,11 F25204 05607 0 02000 0 05574 TRA AC110 FX AC160 RIGHTMOST. F25204 05607 0 02000 0 05574 TRA AC110 FX AC160 RIGHTMOST. F25204 05607 0 02000 0 05574 TRA AC110 FX AC160 RIGHTMOST. F25204 05607 0 02000 0 05574 TRA AC110 FX AC160 RIGHTMOST. F25204 05607 0 02000 0 05574 TRA AC110 FX AC160 RIGHTMOST. F25204 05607 0 02000 0 05574 TRA AC110 FX AC160 RIGHTMOST. F25204 05607 0 02000 0 05574 TRA AC110 FX AC160 RIGHTMOST. F25204 05607 0 02000 0 05574 TRA AC110 FX AC160 RIGHTMOST. F25204 05607 0 02000 0 05574 TRA AC150 RIGHTMOST. F25204		05550 0	00000 0	05553		TXI	AC084+1+1+2	KLX05 BLOCK	F2520200
05553 0 07400 4 07271 TSX LXC+4 BLOCK+ F25202 05554 0 07400 4 07131 AC096 TSX CIL03I+4 COMPILE F25202 05555 0 50000 0 05051 CLA L(LXD) LXD+ F25202 05556 0 60100 0 05177 STO CIL01 F25202 05557 0 50000 0 07620 CLA 0R000+26 FASABLE OBJECT TIME SYMBOL+ F25202 05560 0 73400 1 00000 PAX 0+1 F25202 05561 -0 32000 0 05104 ANA 60NES F25202 05562 -0 63400 1 05201 SXD CIL03+1 F25202 05564 0 07400 4 04345 TSX CIT+4 PUT IN BUFFER+ F25203 05564 0 07400 4 04345 TSX CIT+4 PUT IN BUFFER+ F25203 05565 0 50000 0 07620 AC100 CLA 0R000+26 F25203 05566 0 60100 0 07621 STO 0R000+27 F25203 05567 0 -53400 1 05131 LXA L(3)+1 PREPARE TO F25203 05570 -0 63400 1 05207 AC109 SXD AX+1 CHECK FOR F25203 05572 -0 73400 2 00000 PDX 0+2 SAVE INDEX OF S+ F25203 05573 -3 00000 2 05743 TXL AC160+2+0 POS+ NOT MOD+ BY D0+ F25203 05576 0 0 2000 0 05574 TRA AC110 EXCEPT F25204 05576 0 0 2000 0 05574 TRA AC110 EXCEPT F25204 05600 0 0 2000 0 05574 TRA AC110 EXCEPT F25204 05600 0 0 0000 0 0 05204 STO IETTG FOR THIS DO F25204 05603 0 60100 0 05204 STO IETTG FOR THIS DO F25204 05604 0 50000 0 0 05572 CLA TAG3 AND F25204 056060 0 0 2000 0 05574 TRA AC110 F25204 056060 0 0 0000 0 0 05204 STO IETTG FOR THIS DO F25204 056060 0 0 0000 0 0 05204 STO IETTG FOR THIS DO F25204 056060 0 0 0000 0 0 05171 ANA 61017 NAME OF TEST F25204 056060 0 0 0000 0 0 05572 ANA 241035 COMPARE		05552 0	50000 0	07357	AC084	CLA	KLX05I	C3=1. COMPILE KLX05I	F2520210
05554 0 07400 4 07131 AC096 TSX CIL03I,4 COMPILE LXD.		05553 0	07400 4	07271	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	TSX	LXC • 4	BLOCK.	F2520220
05555		05554 0	07400 4	07131	AC096	TSX	CIL031,4	COMPILE	F2520230
05556 0 60100 0 05177 STO CILO1 05557 0 50000 0 07620 CLA 0R000+26 ERASABLE OBJECT TIME SYMBOL. 05561 -0 32000 0 05104 ANA 6ONES 05562 -0 63400 1 05201 SXD CILO3*1 F25202 05564 0 07400 4 04345 TSX CIT.*4 PUT IN BUFFER* 05566 0 50000 0 07620 AC100 CLA 0R000+26 05566 0 60100 0 07621 STO OR000+27 05566 0 60100 0 07621 STO OR000+27 05567 0 -53400 1 05131 LXA L(3)*1 PREPARE TO F25203 05566 0 60100 0 07621 STO OR000+27 05577 0 063400 1 05131 LXA L(3)*1 DUPES* 05572 -0 73400 2 00000 PDX 0*2 SAVE INDEX OF S* 05573 -3 00000 2 05743 TXL AC160*2*0 PDS* NOT MOD* BY DO* 05574 -2 00001 1 05601 AC110 TNX AC116*1*1 05577 0 02000 0 05574 TRA AC110 EXCEPT F25203 05576 0 02000 0 05574 TRA AC110 EXCEPT F25204 05601 0 50000 0 05574 TRA AC110 EXCEPT F25204 05602 -0 32000 0 05171 ANA 61017 NAME OF TEST F25204 05603 0 60100 0 05204 STO ETTG FOR THIS DO F25204 05604 0 50000 0 055172 ANA 241035 COMPARE		05555 0	50000 0	05051		CLA	L(LXD)	LXD.	F2520240
05557 0 50000 0 07620 CLA ORO00+26 ERASABLE OBJECT TIME SYMBOL. 52202 5560 0 73400 1 00000 PAX 0,1 525202 5561 -0 32000 0 05104 AAA 60NES 525202 5562 -0 63400 1 05201 SXD CIL03,1 5563 0 60100 0 05200 STO CIL02 5564 0 07400 4 04345 TSX CIT;4 PUT IN BUFFER. 525203 5566 0 60100 0 07620 AC100 CLA ORO00+26 5566 0 60100 0 07621 STO ORO00+27 5567 0 -53400 1 05131 LXA L(3),1 PREPARE TO 5570 -0 63400 1 05207 AC109 SXD AX;1 CHECK FOR 5571 0 50000 1 03652 CLA TAG2+3,1 DUPES. 5572 -0 73400 2 00000 PX 0,2 SAVE INDEX OF S. 5573 -3 00000 2 05743 TXL AC160,2,0 POS. NOT MOD. BY DO. 5574 -2 00001 1 05601 AC110 TNX AC116,1,1 5576 0 02000 0 05574 TRA AC110 EXCEPT 55576 0 02000 0 05574 TRA AC110 EXCEPT 55504 55600 0 02000 0 05574 TRA AC110 EXCEPT 55600 0 02000 0 05574 TRA AC110 TXA AC110 5601 0 50000 2 01106 AC116 CLA D0TAG2+8,2 55602 -0 32000 0 05171 ANA 67017 NAME OF TEST 55204 55604 0 50000 0 05572 ANA 6703 AND 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5725204 5		05556 0	60100 0	05177		STO	CIL01		F2520250
05560 0 73400 1 00000 PAX 0,1 05561 -0 32000 0 05104 ANA 60NES 05562 -0 63400 1 05201 SXD CILO3,1 05563 0 60100 0 05200 STO CILO2 05564 0 07400 4 04345 TSX CIT,4 PUT IN BUFFER. 05565 0 50000 0 07620 AC100 CLA 0R000+26 05566 0 60100 0 07621 STO R0000+27 05567 0 -53400 1 05131 LXA L(3),1 PREPARE TO F25203 05570 -0 63400 1 05207 AC109 SXD AX,1 CHECK FOR F25203 05571 0 50000 1 03652 CLA TAGG2+3,1 DUPES. 05572 -0 73400 2 00000 PDX 0,2 SAVE INDEX OF S. 05573 -3 00000 2 05743 TXL AC160,2,0 POS. NOT MOD. BY DO. 05574 -2 00001 1 05601 AC110 TNX AC116,1,1 05575 0 34000 1 03652 CAS TAGG2+3,1 SKIP DUPES 05577 0 02000 0 05574 TRA AC110 EXCEPT F25204 05577 0 02000 0 05743 TRA AC110 EXCEPT F25204 05602 -0 32000 0 05171 ANA 6T017 NAME OF TEST F25204 05603 0 60100 0 05204 STO TETTG FOR THIS DO F25204 05604 0 50000 0 03652 CLA TAGG3 AND F25204 05605 -0 32000 0 05172 ANA 24T0355 COMPARE		05557 0	50000 0	07620		CLA	ORO00+26	ERASABLE OBJECT TIME SYMBOL.	F2520260
05561 -0 32000 0 05104 ANA 60NES F25202 05562 -0 63400 1 05201 SXD CILO3+1 F25202 05563 0 60100 0 05200 STO CILO2 05564 0 07400 4 04345 TSX CIT+4 PUT IN BUFFER• F25203 05565 0 50000 0 07620 AC100 CLA ORO00+26 05566 0 60100 0 07621 STO ORO00+27 05567 0 -53400 1 05131 LXA L(3)+1 PREPARE TO F25203 05570 -0 63400 1 05207 AC109 SXD AX+1 CHECK FOR F25203 05571 0 50000 1 03652 CLA TAG2+3+1 DUPES• F25203 05573 -3 00000 2 05743 TXL AC160+2+0 POS• NOT MOD• BY DO• F25203 05574 -2 00001 1 03661 AC110 TNX AC116+1+1 F25203 05575 0 34000 1 03652 CAS TAG2+3+1 SKIP DUPES F25203 05576 0 02000 0 05574 TRA AC110 EXCEPT F25204 05577 0 02000 0 05574 TRA AC110 EXCEPT F25204 05600 0 02000 0 05574 TRA AC110 EXCEPT F25204 05600 0 02000 0 05574 TRA AC110 TAGA CONDERS F25204 05600 0 02000 0 05574 TRA AC110 TAGA CONDERS F25204 05600 0 02000 0 05574 TRA AC110 TAGA CONDERS F25204 05600 0 02000 0 05574 TRA AC110 TAGA CONDERS F25204 05600 0 02000 0 05574 TRA AC110 TAGA CONDERS F25204 05600 0 02000 0 05574 TRA AC110 TAGA CONDERS F25204 05600 0 02000 0 05574 TRA AC110 TAGA CONDERS F25204 05600 0 02000 0 05574 TRA AC110 TAGA CONDERS F25204 05600 0 02000 0 05574 TRA AC110 TAGA CONDERS F25204 05600 0 02000 0 05574 TRA AC110 TAGA CONDERS F25204 05600 0 02000 0 05574 TRA AC110 TAGA CONDERS F25204 05600 0 02000 0 05574 TRA AC110 TAGA CONDERS F25204 05600 0 02000 0 05574 TRA AC110 TAGA CONDERS F25204 05600 0 02000 0 05574 TRA AC110 TAGA CONDERS F25204 05600 0 02000 0 05171 ANA 6T017 NAME OF TEST F25204 05600 0 0000 0 03652 CLA TAG3 AND F25204		05560 0	73400 1	00000		PAX	0,1		F2520270
05562 -0 63400 1 05201 SXD CILO3+1 05563 0 60100 0 05200 STO CILO2 05564 0 07400 4 04345 TSX CIT+4 PUT IN BUFFER• F25203 05565 0 50000 0 07620 AC100 CLA OR000+26 05566 0 60100 0 07621 STO OR000+27 05567 0-53400 1 05131 LXA L(3)+1 PREPARE TO F25203 05570 -0 63400 1 05207 AC109 SXD AX+1 CHECK FOR F25203 05571 0 50000 1 03652 CLA TAG2+3+1 DUPES• F25203 05572 -0 73400 2 00000 PDX 0+2 SAVE INDEX OF S• F25203 05573 -3 00000 2 05743 TXL AC160+2+0 POS• NOT MOD• BY DO• F25203 05575 0 34000 1 03652 CAS TAG2+3+1 SKIP DUPES F25203 05576 0 02000 0 05574 TRA AC110 EXCEPT 05600 0 02000 0 05574 TRA AC110 EXCEPT 05600 0 02000 0 05574 TRA AC110 05601 0 50000 2 01106 AC116 CLA DOTAG2+8+2 ISOLATE 05602 -0 32000 0 05171 ANA 6T017 NAME OF TEST 05603 0 60100 0 05204 STO TETTG FOR THIS DO 05604 0 50000 0 05172 ANA 24T035 COMPARE		05561 -0	32000 0	05104		ANA	60NES		F2520280
05563 0 60100 0 05200 STO CILO2 05564 0 07400 4 04345 TSX CIT1+4 PUT IN BUFFER• F25203 05565 0 50000 0 07620 AC100 CLA OR000+26 05566 0 60100 0 07621 STO OR000+27 05567 0-53400 1 05131 LXA L(3)+1 PREPARE TO F25203 05570 -0 63400 1 05207 AC109 SXD AX+1 CHECK FOR F25203 05571 0 50000 1 03652 CLA TAG2+3+1 DUPES• F25203 05572 -0 73400 2 00000 PDX 0+2 SAVE INDEX OF S• F25203 05573 -3 00000 2 05743 TXL AC160+2+0 POS• NOT MOD• BY DO• F25203 05574 -2 00001 1 05601 AC110 TNX AC116+1+1 F25204 05575 0 34000 1 03652 CAS TAG2+3+1 SKIP DUPES F25203 05576 0 02000 0 05574 TRA AC110 EXCEPT F25204 05577 0 02000 0 05574 TRA AC110 RIGHTMOST• F25204 05601 0 50000 2 01106 AC116 CLA DOTAG2+8+2 ISOLATE F25204 05602 -0 32000 0 05171 ANA 67017 NAME OF TEST F25204 05604 0 50000 0 03652 CLA TAG3 AND F25204 05605 -0 32000 0 05172 ANA 24T035 COMPARE		05562 -0	63400 1	05201		SXD	CILO3,1		F2520290
05564 0 07400 4 04345 TSX CIT+4 PUT IN BUFFER• F25203 05565 0 50000 0 07620 AC100 CLA ORO00+26 05566 0 60100 0 07621 STO ORO00+27 05567 0 53400 1 05131 LXA L(3)+1 PREPARE TO F25203 05570 -0 63400 1 05207 AC109 SXD AX+1 CHECK FOR F25203 05571 0 50000 1 03652 CLA TAG2+3+1 DUPES• F25203 05572 -0 73400 2 00000 PDX 0+2 SAVE INDEX OF S• F25203 05573 -3 00000 2 05743 TXL AC160+2+0 POS• NOT MOD• BY DO• F25203 05574 -2 00001 1 05601 AC110 TNX AC116+1+1 F25203 05575 0 34000 1 03652 CAS TAG2+3+1 SKIP DUPES F25203 05577 0 02000 0 05574 TRA AC110 EXCEPT F25204 05577 0 02000 0 05574 TRA AC110 EXCEPT F25204 05500 0 02000 0 05574 TRA AC110 TRA AC110 F25204 05600 0 02000 0 05574 TRA AC110 F25204 05601 0 50000 2 01106 AC116 CLA DOTAG2+8+2 ISOLATE F25204 05602 -0 32000 0 05171 ANA 6T017 NAME OF TEST F25204 05603 0 60100 0 05204 STO TETTG FOR THIS DO F25204 05604 0 50000 0 03652 CLA TAG3 AND F25204 05605 -0 32000 0 05172 ANA 247035 COMPARE F25204		05563 0	60100 0	05200		510	CIL02		F2520300
05565 0 50000 0 07620 AC100 CLA OR000+26 F25203 05566 0 60100 0 07621 STO OR000+27 F25203 05567 0 -53400 1 05131 LXA L(3)*1 PREPARE TO F25203 05570 -0 63400 1 05207 AC109 SXD AX*1 CHECK FOR F25203 05571 0 50000 1 03652 CLA TAG2+3*1 DUPES* F25203 05572 -0 73400 2 00000 PDX 0*2 SAVE INDEX OF S* F25203 05573 -3 00000 2 05743 TXL AC160*2*0 POS* NOT MOD* BY DO* F25203 05574 -2 00001 1 05601 AC110 TXX AC116*1*1 F25203 05575 0 34000 1 03652 CAS TAG2+3*1 SKIP DUPES F25204 05576 0 02000 0 05574 TRA AC110 EXCEPT F25204 05577 0 02000 0 05743 TRA AC110 EXCEPT F25204 05600 0 02000 0 05743 TRA AC110 EXCEPT F25204 05600 0 02000 0 05743 TRA AC110 F25204 05600 0 02000 0 05171 ANA 67017 NAME OF TEST F25204 05602 -0 32000 0 05171 ANA 67017 NAME OF TEST F25204 05604 0 50000 0 03652 CLA TAG3 AND F25204 05605 -0 32000 0 05172 ANA 247035 COMPARE F25204		05564 0	07400 4	04345		TSX	CIT • 4	PUT IN BUFFER.	F2520310
05566 0 60100 0 07621		05565 0	50000 0	07620	AC100	CLA	ORO00+26		F2520320
05567 0-53400 1 05131		05566 0	60100 0	07621		STO	ORO00+27		F2520330
05570 -0 63400 1 05207 AC109 SXD AX+1 CHECK FOR 05571 0 50000 1 03652 CLA TAG2+3+1 DUPES F25203 05572 -0 73400 2 00000 PDX 0+2 SAVE INDEX OF S+ F25203 05573 -3 00000 2 05743 TXL AC160+2+0 POS NOT MOD BY DO+ F25203 05574 -2 00001 1 05601 AC110 TNX AC116+1+1 F25203 05575 0 34000 1 03652 CAS TAG2+3+1 SKIP DUPES F25204 05576 0 02000 0 05574 TRA AC110 EXCEPT F25204 05577 0 02000 0 05743 TRA AC160 RIGHTMOST+ F25204 05600 0 02000 0 05574 TRA AC110 F25204 05600 0 03000 0 05171 ANA 6T017 NAME OF TEST F25204 05605 -0 32000 0 05172 ANA 6T017 NAME OF TEST F0R THIS DO F25204 05605 -0 32000 0 05172 ANA 24T035 COMPARE F25204		05567 0	-53400 1	05131		LXA	L(3) +1	PREPARE TO	F2520340
05571 0 50000 1 03652 CLA TAG2+3+1 DUPES F25203 05572 -0 73400 2 00000 PDX 0+2 SAVE INDEX OF S+ 05573 -3 00000 2 05743 TXL AC160+2+0 POS+ NOT MOD+ BY DO+ 05574 -2 00001 1 05601 AC110 TNX AC116+1+1 F25203 05575 0 34000 1 03652 CAS TAG2+3+1 SKIP DUPES F25204 05576 0 02000 0 05574 TRA AC110 EXCEPT F25204 05577 0 02000 0 05743 TRA AC160 RIGHTMOST+ 05600 0 02000 0 05574 TRA AC110 F25204 05600 0 03000 0 05171 ANA 6T017 NAME OF TEST F25204 05600 0 03000 0 05171 ANA 6T017 NAME OF TEST F25204 05600 0 05000 0 03652 CLA TAG3 AND F25204 05605 -0 32000 0 05172 ANA 24T035 COMPARE		05570 -0	63400 1	05207	AC109	SXD	AX91	CHECK FOR	F2520350
05572 -0 73400 2 00000 PDX 0,2 SAVE INDEX OF S. 05573 -3 00000 2 05743 TXL AC160,2,0 POS. NOT MOD. BY DO. 05574 -2 00001 1 05601 AC110 TNX AC116,1,1 F25203 05575 0 34000 1 03652 CAS TAG2+3,1 SKIP DUPES F25204 05576 0 02000 0 05574 TRA AC110 EXCEPT F25204 05577 0 02000 0 05743 TRA AC160 RIGHTMOST. 05600 0 02000 0 05574 TRA AC110 F25204 05601 0 50000 2 01106 AC116 CLA DOTAGZ+8,2 ISOLATE F25204 05602 -0 32000 0 05171 ANA 6T017 NAME OF TEST F25204 05603 0 60100 0 05204 STO TETTG FOR THIS DO F25204 05604 0 50000 0 03652 CLA TAG3 AND F25204 05605 -0 32000 0 05172 ANA 24T035 COMPARE F25204		05571 0	50000 1	03652		CLA	TAG2+3 • 1	DUPES.	F2520360
05573 -3 00000 2 05743		05572 -0	73400 2	00000		PDX	0,2	SAVE INDEX OF S.	F2520370
05574 -2 00001 1 05601 AC110 TNX AC116+1+1 F25203 05575 0 34000 1 03652 CAS TAG2+3+1 SKIP DUPES F25204 05576 0 02000 0 05574 TRA AC110 EXCEPT F25204 05577 0 02000 0 05743 TRA AC160 RIGHTMOST. F25204 05600 0 02000 0 05574 TRA AC110 F25204 05601 0 50000 2 01106 AC116 CLA DOTAGZ+8+2 ISOLATE F25204 05602 -0 32000 0 05171 ANA 6T017 NAME OF TEST F25204 05603 0 60100 0 05204 STO TETTG FOR THIS DO F25204 05604 0 50000 0 03652 CLA TAG3 AND F25204 05605 -0 32000 0 05172 ANA 24T035 COMPARE F25204		05573 -3	00000 2	05743		TXL	AC160+2+0	POS. NOT MOD. BY DO.	F2520380
05575 0 34000 1 03652 CAS TAG2+3+1 SKIP DUPES F25204 05576 0 02000 0 05574 TRA AC110 EXCEPT F25204 05577 0 02000 0 05743 TRA AC160 RIGHTMOST. F25204 05600 0 02000 0 05574 TRA AC110 F25204 05601 0 50000 2 01106 AC116 CLA DOTAGZ+8+2 ISOLATE F25204 05602 -0 32000 0 05171 ANA 6T017 NAME OF TEST F25204 05603 0 60100 0 05204 STO TETTG FOR THIS DO F25204 05604 0 50000 0 03652 CLA TAG3 AND F25204 05605 -0 32000 0 05172 ANA 24T035 COMPARE F25204		05574 -2	00001 1	05601	AC110	TNX	AC116,1,1		F 2520390
05576 0 02000 0 05574 TRA AC110 EXCEPT F25204 05577 0 02000 0 05743 TRA AC160 RIGHTMOST. F25204 05600 0 02000 0 05574 TRA AC110 F25204 05601 0 50000 2 01106 AC116 CLA DOTAGZ+8,2 ISOLATE F25204 05602 -0 32000 0 05171 ANA 6T017 NAME OF TEST F25204 05603 0 60100 0 05204 STO TETTG FOR THIS DO F25204 05604 0 50000 0 03652 CLA TAG3 AND F25204 05605 -0 32000 0 05172 ANA 24T035 COMPARE F25204		05575 0	34000 1	03652		CAS	TAG2+3,1	SKIP DUPES	F 2520400
05577 0 02000 0 05743 TRA AC160 RIGHTMOST. F25204 05600 0 02000 0 05574 TRA AC110 F25204 05601 0 50000 2 01106 AC116 CLA DOTAGZ+8;2 ISOLATE F25204 05602 -0 32000 0 05171 ANA 6T017 NAME OF TEST F25204 05603 0 60100 0 05204 STO TETTG FOR THIS DO F25204 05604 0 50000 0 03652 CLA TAG3 AND F25204 05605 -0 32000 0 05172 ANA 24T035 COMPARE F25204		05576 0	02000 0	05574		TRA	AC110	EXCEPT	F2520410
05600 0 02000 0 05574 TRA AC110 F25204 05601 0 50000 2 01106 AC116 CLA DOTAGZ+8;2 ISOLATE F25204 05602 -0 32000 0 05171 ANA 6T017 NAME OF TEST F25204 05603 0 60100 0 05204 STO TETTG FOR THIS DO F25204 05604 0 50000 0 03652 CLA TAG3 AND F25204 05605 -0 32000 0 05172 ANA 24T035 COMPARE F25204		05577 0	02000 0	05743		TRA	AC160	KIGHTMOST.	r 2520420
05601 0 50000 2 01106 AC116 CLA DUIAGZ+8;2 150LATE F25204: 05602 -0 32000 0 05171 ANA 6T017 NAME OF TEST F25204: 05603 0 60100 0 05204 STO TETTG FOR THIS DO F25204: 05604 0 50000 0 03652 CLA TAG3 AND F25204: 05605 -0 32000 0 05172 ANA 24T035 COMPARE F25204:		05600 0	02000 0	05574		TRA	AC110	TOOLATE	F2520430
05602 -0 32000 0 05171 ANA 61017 NAME OF 1EST F25204 05603 0 60100 0 05204 STO TETTG FOR THIS DO F25204 05604 0 50000 0 03652 CLA TAG3 AND F25204 05605 -0 32000 0 05172 ANA 24T035 COMPARE F25204	•	05601 0	50000 2	01106	AC116	CLA	UUIAGZ+892	ISULATE NAME OF TEST	F2520440
05603 0 60100 0 05204 510 16110 FOR THIS DO F25204 05604 0 50000 0 03652 CLA TAG3 AND F25204 05605 -0 32000 0 05172 ANA 24T035 COMPARE F25204		05602 -0	32000 0	05171		ANA	PIOI /	NAME UF IEST	F252042U.
05604 0 50000 0 03652 CLA 1803 AND F23204 05605 -0 32000 0 05172 ANA 24T035 COMPARE F25204		05603 0	60100 0	05204		310	TAC2	FUR INTO DO	F2520460
05605 -0 32000 0 05172 ANA 241033 CUMPARE \ T232040		05604 0	50000 0	03652		LLA	1 MU 2	COMPARE	F2520440
		05605 -0	32000 0	05172		ANA	241035	COMPARE	F 2920460

		WITU	F2520490
05606 0 76700 0 00022	ALS 18	CUPDENT TAG.	F2520500
05607 0 34000 0 05204	CAS IEIIG	NOT A TEST TAG.	. F2520510
05610 0 02000 0 05743	TRA ACIOU	THIS IS A TEST TAG.	F2520520
05611 0 02000 0 05613	IRA ACIZO	INIO IS A ILSI INGO	F2520520
05612 0 02000 0 05743	TRA AC160	NUI A IESI IAGO	F2520540
05613 0 50000 2 01101 AC120	CLA DOTAGZ+3,2	THIS IS TEST TAGE	F2520540
05614 -0 32000 0 05104	ANA GONES	18 N2 CONSTANT.	F2520570
05615 -0 10000 0 05622	TNZ AC128	WITH CURRENT TAG. NOT A TEST TAG. THIS IS A TEST TAG. NOT A TEST TAG. THIS IS TEST TAG. THIS IS TEST TAG. 18 N2 CONSTANT.	F2520500
05616 0 50000 2 01106	CLA DOTAGZ+8,2 ANA BIT20 TZE AC138	IF RIGHT TEST HAS VARIABLE DECREMENT	F2520570
05617 -0 32000 0 05154	ANA BIT20	GO TO AC138 +4	F2520580
05620 0 10000 0 05627	TZE AC138	INSTEAD OF	F2520590
05621 0 02000 0 05633	TRA AC138+4		F2520600
05622 0 50000 2 01101 AC128	CLA DOTAGZ+3,2		F2520610
05622 0 60100 0 05200	STO CILO2	PUT N2 WORD AS	F2520620
05626 0 50000 0 05133	CLA L(O)	SYMBOLIC ADDRESS AND	F2520630
05624 0 50000 0 05201	STO CILO3	ZERO AS THE	F2520640
05625 0 00100 0 05660	TRA AC140	RELATIVE ADDRESS.	F2520650
05626 0 02000 0 03000 05627 0 56000 2 01104 AC138	LDQ DOTAGZ+6.2	CONSTANT N2 CASE.	F2520660
05627 0 50000 2 01104 HC150	RQL 9	IS TEST	F2520670
05630 -0 77300 0 00011	I GL 12	MODIFIED.	F2520680
05631 -0 76300 0 00014	T2F AC160	NO. TAKE NEXT SUB.	F2520690
05632 0 10000 0 05745	CLA DOTAGZ+3+2	YES. ISOLATE N2.	F2520700
05633 0 50000 2 01101	LXD AX+1		F2520710
05634 -0 53400 1 05207	TSY CY1.1+2.4	IF POSITION IS	F2520720
05635 0 07400 4 04451	TNY AC139-1-1		F2520730
05636 -2 00001 1 05047	STO ESTORE		F2520740
05637 0 80100 0 05070	CLA DOTAG7+8+2	DOES TEST	F2520750
05640 0 50000 2 01106	ANA RITZO	HAVE VARIABLE DECREMENT.	F2520760
05641 -0 32000 0 05154	TN7 AC130-1		F2520770
05642 -0 10000 0 05646	CLA ECTOPE	•	F2520780
05643 0 50000 0 05070	TEV TELCHAA		F2520790
05644 0 07400 4 04410	TDA AC130		F2520800
05645 0 02000 0 05647	CLA ECTOPE		F2520810
05646 0 50000 0 05070	ALC 10	•	F2520820
05647 0 76700 0 00022 AC139	ALS IO	ASSIGN SYMBOL FOR	F2520830
05650 0 07400 4 04601	15X FIXCON94	LOAD DODTION	F2520840
05651 0 73400 1 00000	PAX U91	AND COMOTIFE	F2520850
05652 -0 32000 0 05104	ANA GONES	CLALICNO A LOAD PORTAL	F2520860
05653 0 60100 0 05200	STO CILOZ	CLALIGHZ + LOAD FORTET	F2520870
05654 0 50000 0 05133	CLA L(0)		F2520880
05655 0 60100 0 05201	STO CILOS		F2520890
05656 -0 63400 1 05201	SXD CILO391		F2520900
05657 0 02000 0 05665	TRA AC144	•	F2520910
05660 0 50000 0 05126 AC140	CLA L(1)	COMPUTE C AND DETERMINE	F2520920
05661 -0 53400 1 05207	LXD AX91	TE COEATED THAN ONE.	F2520930
05662 0 07400 4 04451	TSX CX1J+294	IF GREATER THAN ONE.	F2520940
05663 0 40200 0 05126	SUB L(1)		F2520950
0 5664 -0 10000 0 05673	TNZ AC146		#252072U
05665 0 50000 0 05053 AC144	CLA L(CLA)	G = 19	F2520960
05666 0 60100 0 05177	STO CILOI	COMPILE .	F2520970
05667 0 50000 0 05133	CLA L(0)	CLA NZ FOLLOWED	F2520980
05670 0 60100 0 05176	STO CILOO	LAIER BY SIVE	F2520990
05671 0 07400 4 04345	TSX CIT+4		F2521000
05672 0 02000 0 05704	TRA AC150	C COPATED THAN 1.	F2521010
05673 0 40000 0 05126 AC146	ADD L(1)	IF RIGHT TEST HAS VARIABLE DECREMENT GO TO AC138 +4 INSTEAD OF PUT N2 WORD AS SYMBOLIC ADDRESS AND ZERO AS THE RELATIVE ADDRESS. CONSTANT N2 CASE. IS TEST MODIFIED. NO. TAKE NEXT SUB. YES, ISOLATE N2. IF POSITION IS DOES TEST HAVE VARIABLE DECREMENT. ASSIGN SYMBOL FOR LOAD PORTION AND COMPILE CLAL(GN2 + LOAD PORT.) COMPUTE G AND DETERMINE IF GREATER THAN ONE. G = 1. COMPILE CLA N2, FOLLOWED LATER BY STD. G GREATER THAN 1.	F2521020

	05674	0	76700	00022		ALS	18	COMPILE					F2521030
	05675		07400			TSX	FIXCON,4	LDQ. MPY. A	LS.				F2521040
	05676		60100				ORO00+9						F2521050
	05677	0	50000	05200		CLA	CIL02						F2521060
	05700	0	60100	0 07567		STO	ORO00+1						F2521070
	05701	0	50000	07352		CLA	KLX02I						F2521080
	05702		53400			LXA	L(3),1						F2521090
	05703	0	07400	4 07271		TSX	LXC+4						F2521100
	05704	-0	53400	1 05207	AC150	LXD	AX+1						F2521110
	05705	0	50000	03652		CLA	TAG3,1						F2521120
	05706	-0	73400	2 00000		PDX	0•2						F2521130
	05707	0	50000	2 01106		CLA	DOTAGZ+8,2						F2521140
	05710	-0	32000	05154		ANA	BIT20						F2521150
	05711	-0	53400	2 05207			AX+2						F2521160
	05712	0	10000	05733			AC157						F2521170
	05713	-2	00001	2 05733			AC157•2•1						F2521180
	05714	0	53400	1 05126		LXA	L(1) +1						F2521190
	05715	0	50000	07351		CLA	KLX01I				٠.		F2521200
	05716	0	07400	4 07271		TSX	LXC • 4						F2521210
	05717	0	50000	05166		CLA	INST13						F2521220
	05720	0	60100	05554		STO	AC096						F2521230
	05721	0	07400	4 07172		TSX	COSE • 4						F2521240
	05722	-0	53400	2 05207		LXD	AX+2						F2521250
	05723	-3	00002	2 05540		TXL	AC080,2,2						F2521260
	05724	0	02000	05523		TRA	AC064						F2521270
	05725	0	50000	05167	AC155	CLA	INST14						F2521280
	05726	0	60100	05554		STO	AC096						F2521290
	05727	-0	53400	2 05207		LXD	AX•2						F2521300
	05730	-0	53400	4 05173		LXD	BBOX • 4						F2521310
	05731	1	00004	4 05732			AC155+5,4,4						F2521320
,	05732	-0	63400	4 05173			BBOX,4						F2521330
	05733	0.	07400	4 07211	AC157		TESTLO,4						F2521340
	05734	0	50000	05255			TETLOC	IN TETLO.					F2521350
	05735	0	60100	05200			CIL02	COMPILE					F2521360
	05736	0	50000	05052			L(STD)	STD TETLO					F2521370
	05737		60100				CILOI	AND RETURN	TO				F2521380
			63400 (CILOO	AC160 TO				•	F2521390
	05741	-0	63400 (05201			CIL03	CONSIDER NE	XT				F2521400
	05742	0	07400	4 04345			CIT+4	SUB OF TAG.					F2521410
	05743	-0	53400	1 05207	AC160		AX#1						F2521420
	05744	2	00001	1 05570			AC109,1,1	REDUCE POS.	CTR.				F2521430
	05745		50000			-	TAG4	CHECK SUSBI	T				F2521440
	05746		12000			-	AC165	FOR FORVAR.			٠.		F2521450
	05747	-0	53400 2	2 05230			DOIND,2	FORVAR, IS	IT				F2521460
	05750	0	50000 2	2 01103			DOTAGZ+5,2	WITHIN THE	CURRENT	DO.			F2521470
	05751	-0	32000 (05136			BIT1						F2521480
	05752	-	10000				AC165	AND RETURN AC160 TO CONSIDER NE SUB OF TAG. REDUCE POS. CHECK SUSBI FOR FORVAR. FORVAR, IS WITHIN THE NO, AC165. YES, COMPILE					F2521490
	05753		50000 (L(0)	YES,					F2521500
	05754		60100				CILUL						F2521510
	05755	0	07400 4	07131			CIL03I •4	INSTRUCTION	S				F2521520
	05756	Q	50000 (05043			L(PXD)	TO					F2521530
	05757		60100 0				CIL01	STORE					F2521540
	05760	0	07400 4	04345			CIT+4	THE					F2521550
	05761	0	50000 2	01077		CLA	DOTAGZ+1.2	VALUE			\		F2521560

T

05762 0 60100 0	05200	STO CILO2	OF THE SUBSCRIPT INTO ITS SYMBOL. START SCANNING TGA FOR LOCATIONS INDICATING VARIABLE DECREMENTS OF TXI AND TIX INSTRUCTIONS- NONE, AC240. YES, ISOLATE APP. TGTG AND CHECK FOR LOCATIONS OF TXI INSTRUCTIONS WITH VARIABLE DECREMENTS. NONE, AC190. STORE LOC. OF TXI. IS POSITION POSITION IS S1, IS THIS BLOCK D SPECIAL. NO, BLOCK A. TSX AORO TES, SET UP CIDI AS G FOR XX POSITION. C1 IS G FOR N3X POSITION. PREPARE TO CALL PC ROUTINE TO COMPILE INITIALIZATION INSTRUCTIONS FOR BLOCK D SPECIAL. IS POSITION S3) ISOLATE BLKNUM FROM TAGA AND CALLPROPER ROUTINE TO COMPILE INITIALIZATION INSTRUCTIONS FOR THAT BLOCK. BLOCK A BLOCK B	F2521570
		CLA L(STO)	THE	F2521580
	•••	STO CILOI	SUBSCRIPT	F2521590
05764 0 60100 0 05765 -0 75400 0		PXD 0.0	INTO	F2521600
05766 0 60100 0	05201	STO CILO3	ITS	F2521610
	0/2/1	TSX CIT+4	SYMBOL .	F2521620
05767 0 07400 4	05237 AC165	CLA XTG	START SCANNING	F2521630
		ARS 2	TGA FOR LOCATIONS	F2521640
05771 0 77100 0	00002	PDX 0.1	INDICATING VARIABLE	F2521650
05772 -0 73400 1	00000	CAL MXTGA 1	DECREMENTS OF TXI	F2521660
05773 -0 50000 1	02040	SLW WRKTGA	AND TIX INSTRUCTIONS-	F2521670
05774 0 60200 0		TZE AC240	NONE AC240	F2521680
05775 0 10000 0	06231	LXA L(3) •1	YES. ISOLATE	F2521690
05776 0 53400 1	05131	SXD AX:1	APPA TGTG AND	F2521700
05777 -0 63400 1	05201 AC100	CAL WRKTGA	CHECK FOR	F2521710
06000 -0 50000 0	05211	ARS 18	LOCATIONS	F2521720
06001 0 77100 0	00022	TNX AC170,1,1	OF TYI	F2521730
06002 -2 00001 1	06002 AC100	ARS 6	INSTRUCTIONS	F2521740
06003 0 77100 0	00006	TDA ACIES	WITH VARIARIE	F2521750
06004 0 02000 0	06002	TRA AC168 ANA 60NESR	DECREMENTS.	F2521760
06005 -0 32000 0		TZE AC190	NONE ACTION	F2521770
06006 0 10000 0	06060	IZE AC190	CTOPE	F2521780
06007 0 76700 0	00003	ALS 3 STO TETLOC	LOCA OF TYTA	F2521790
06010 0 60100 0	05255	174 1 (01 . 4	LOCE OF TALL	F2521800
06011 0 53400 4	05133	LXA L(0)+4	ts	F2521810
06012 -0 53400 1		LXD AX+1 CLA TAG4	POSITION	F2521820
06013 0 50000 0	03653	TXL AC173,1,2	F031 10N	F2521830
06014 -3 00002 1	06035	ANA DITO	POSITION IS SIA IS	F2521840
06015 -0 32000 0		ANA BIT8 TNZ AC172	THIS BLOCK D SPECIAL.	F2521850
06016 -0 10000 0		CLA TAG4	NOA BLOCK AA	F2521860
06017 0 50000 0		TDA AC176	TCY AORO	F2521870
06020 0 02000 0		TRA AC176	TEC. CET HP	F2521880
06021 0 56000 0	03640 AC172	LDQ WRKSC+2	CIDL AS G	F2521890
06022 0 20000 0	03644	MPY WRKSC+6	END VY POSITION.	F2521900
06023 0 76700 0	00021	ALS 17	C1 IS G FOR	F2521910
06024 0 60100 0	07612	STO ORO00+20	NZY POSITION.	F2521920
06025 0 50000 0	03636	CLA WRKSC	DDEDADE TO	F2521930
06026 0 60100 0	07611	STO ORO00+19	CALL DC DOUTINE	F2521940
06027 0 53400 1	05131	LXA L(3),1	TO COMPLIE	F2521950
06030 -0 63400 1	05212	SXD N3X+1	TAITTALIZATION	F2521960
06031 0 53400 1	05127	LXA L(2)+1	THETOLETIONS	F2521970
06032 -0 63400 1	05213	SXD XX+1	END BLOCK D SPECIAL.	F2521980
06033 0 07400 4		TSX PC+4	FOR BLOCK D SPECIALS	F2521990
06034 0 02000 0	06060	TRA AC190	IC DOCITION S21	F2522000
06035 -3 00001 1	06037 AC173	TXL AC174,1,1	15 PUSITION SST	F2522010
06036 0 77100 0	00003	ARS 3	EDOM TACK AND	F2522020
06037 0 77100 0	00035 AC174	ARS 29	CALL BOODED POUTINE	F2522030
06040 -0 32000 0		ANA L(7)	TO COMPLIE INITIALIZATION	F2522040
06041 0 73400 4	00000	PAX 0,4	INCIDICATIONS FOR THAT RIDCE.	F2522050
06042 3 00000 4	06045 AC176	TXH AC176+3,4,0 TSX AORO,4	INSTRUCTIONS FOR THAT DECKE	F2522060
06043 0 07400 4	•••	TSX AORO 4	DLUCK A	F2522070
06044 0 02000 0		TRA AC190		F2522080
06045 3 00001 4		TXH AC178,4,1	DI DOK B	F2522090
06046 0 07400 4		TSX BORO,4	DLUCK D	F2522100
06047 0 02000 0	06060	TRA AC190		

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06050 3 00002 4 060	3 AC178 TXH	AC182,4,2	BLOCK C BLOCK D. BLOCK D. BLOCK E. IF ALL SUBS HAVE NOT BEEN CONSIDERED FOR TXIS, TAKE NEXT RT. THIS REPRESENTS END OF TXI PHASE, START TIX. ISOLATE APP. TGTG ENTRY. IS THERE A TIX VAR. DEC. LOC. YES, STORE TIX REL. LOC. IN TETLOC WORD. ISOLATE N3 FOR THIS DO. DOES N3 = 1. NO, PLACE N SYMBOLS IN APPROP. ORO LOCS AND COMPUTE X QUANTITY ON O.C. LEVEL. TRA AC224. MODIFY ADRO ROUTINE TO COMPUTE G. TRAAC228. COMPUTE G, PUT IN ORO+19. G1 = 1. G1 NOT = 1, COMPUTE INSTRUCTIONS TO COMPUTE AND INITIALIZE TIX DECREMENT. N3 NOT = 10. N3 = 1, DOES N1 = 1. N1 NOT = 10. N3, N1=1.6 G GREATER THAN 1. EXIT TIX INITIALIZATION. 33 = 1, N1 NOT = 1;	F2522110
06051 0 07400 4 064	157	CORO 94	BLOCK C	F2522120
06052 0 02000 0 060	O TRA	AC190		F2522100
06053 3 00003 4 060	6 AC182 TX	AC186,4,3	0.044.0	F2522140
06054 0 07400 4 065	2 157	DORO • 4	BLUCK D.	F252213U
06055 0 02000 0 060	o TRA	AC190	01.05% 5	F2522100
06056 0 07400 4 065	1 AC186 TSX	EORO • 4	BLOCK E.	F2522110
06057 0 02000 0 060	SO TRA	AC190	AT ALL BURG HAVE NOT GEEN	F2522160
06060 -0 53400 1 052	7 AC190 LX	AX+1	IF ALL SUBS HAVE NOT BEEN	F2522190
06061 2 00001 1 057	77 TIX	AC166,1,1	CONSIDERED FOR IXIS TAKE NEXT RIO	F2522200
06062 0 53400 1 051	S1 LXA	L(3)+1	THIS REPRESENTS END OF	F2522210
06063 -0 63400 1 052	7 AC200 SXD	AX+1	TXI PHASE, START TIX.	F2522220
06064 0 50000 0 052	11 CLA	WRKTGA	ISOLATE APP. TGTG ENTRY.	F2522230
06065 -2 00001 1 060	70 AC210 TNX	AC214+1,1,1		F2522240
06066 0 77100 0 000	6 ARS	6		F2522250
06067 0 02000 0 060	55 AC214 TRA	AC210		F2522260
06070 -0 32000 0 051	70 ANA	60NESR		F2522270
06071 0 10000 0 062	ss tze	AC236	IS THERE A TIX VAR. DEC. LOC.	F2522280
06072 0 76700 0 000)3 ALS	3	YES, STORE TIX REL. LOC.	F2522290
06073 0 60100 0 052	55 S TC	TETLOC	IN TETLOC WORD.	F2522300
06074 -0 53400 1 052)7 LXD	AX:1		F2522310
06075 0 50000 1 036	S2 CLA	TAG2+3,1	ISOLATE	F2522320
06076 -0 73400 2 000	O PDX	0,2	N3 FOR	F2522330
06077 0 50000 2 011	2 ACI21 CLA	DOTAGZ+4,2	THIS DO.	F2522340
06100 0 40200 0 051	6 SUE	L(1)	DOES N3 = 1.	F2522350
06101 0 10000 0 061	7. TZE	AC220+2	·	F2522360
06102 0 07400 4 072	TSX	XORO • 4	NO. PLACE N SYMBOLS	F2522370
06103 0 53400 1 051	6 LXA	L(6) •1	IN APPROP. ORO LOCS	F2522380
06104 -0 53400 2 052	7 LXD	AX • 2	AND COMPUTE	F2522390
06105 0 50000 2 073	7 AC220 CLA	KTX00+3+2	X QUANTITY	F2522400
06106 0 07400 4 072	71 TSX	LXC • 4	ON O.C. LEVEL.	F2522410
06107 -0 53400 1 052	7 LXD	AX+1	•	F2522420
06110 0 50000 0 051	O CLA	INST4	TRA AC224. MODIFY ADRO	F2522430
06111 0 60100 0 064	24 STC	AORO30	ROUTINE TO COMPUTE G.	F2522440
06112 0 50000 0 051	CLA	INST5	TRAAC228.	F2522450
06113 0 60100 0 064	so sto	AORO40		F2522460
06114 0 07400 4 063	TSX	AORO • 4	COMPUTE G. PUT IN ORO+19.	F2522470
06115 0 02000 0 061	2 AC224 TRA	AC230	GI = 1.	F2522480
06116 -0 53400 1 052	7 AC228 LXD	AX • 1	G1 NOT = 1.	F2522490
06117 0 50000 1 036	CLA	TAG2+3•1	COMPILE INSTRUCTIONS	F2522500
06120 -0 73400 2 000	0 PDX	0,2	TO COMPUTE AND INITIALIZE	F2522510
06121 0 50000 2 011	CLA	DOTAGZ+4,2	TIX DECREMENT.	F2522520
06122 0 40200 0 051	SUB	L(1)		F2522530
06123 =0 10000 0 061	6 TNZ	AC2281	N3 NOT = 1.	F2522540
06124 0 50000 2 011	OO CLA	DOTAGZ+2.2	N3 = 1, DOES	F2522550
06125 0 40200 0 051	6 SUB	L(1)	N1 = 1.	F2522560
06126 -0 10000 0 061	5 TNZ	AC122	N1 NOT = 1.	F2522570
06127 0 50000 2 011	1 CLA	DOTAGZ+3.2	N3 • N1=1 •	F2522580
06120 0 60100 0 075	sto	ORO00	G GREATER THAN 1.	F2522590
06130 0 50100 0 073	60 · CLA	K1AORO		F2522600
00131 0 50000 0 073	in IXA	L(4) • 1		F2522610
00132 0 03400 4 032	TSX	LXC•4	•	F2522620
00133 0.01400 4 012	TRA	AC234	EXIT TIX INITIALIZATION.	F2522630
00134 0 02000 0 002	1 ACT22 TSX	0P3•4	13= 1. N1 NOT = 1.	F2522640
00133 0 01400 4 041	I WEILE 10V			

	_		_			c		COMPILE		F2522650
06136		50000					L(ADD) CILO1	TIX	,	F2522660
06137		60100				_	ORO00+13	INITIALIZATION		F2522670
06140		50000					0.1	GROUP		F2522680
		73400						FOR		F2522690
		32000					60NES			F2522700
		60100					CILO2	THIS		F2522710
		63400					CIL03.1	CASE.		
06145		07400					CIT+4			F2522720
06146	0	50000	0	05044			L(STO)			F2522730
06147	. 0	60100	0	05177		STO	CIL01			F2522740
		50000				CLA	L(0)			F2522750
06151		60100				STO	CIL03			F2522760
06152		50000				CLA	ORO00+26	ERASEABLE STORAGE		F2522770
	Õ	73400	4	00000		PAX	0,4	SYMBOL FOR ADDRESS.		F2522780
		32000				ANA	60NES			F2522790
		60100					CILOZ			F2522800
		63400					CIL03,4			F2522810
		07400					CIT+4			F2522820
		50000					ORO00+26	ERASEABLE STORAGE SYMBOL FOR ADDRESS. PLACE ERASEABLE SYMBOL IN OROOO FOR LXC BLOCK.		F2522830
		60100					ORO00	IN ORODO FOR LXC BLOCK.		F2522840
						-	L(4),1	THE CHOOL TON THE PERSON		F2522850
		53400					K1AORO	Ÿ.		F2522860
		50000				-	LXC+4			F2522870
		07400					AC234	EXIT TIX INITIALIZATION.		F2522880
06165	0	02000	0	06231	162201			EXII IIA INIIIACIZATIONE	•	F2522890
06166	0	53400	1	05130	AC2281	CXA	L (4)) I	COMPTLE TIV INITIAL TRATION		F2522900
		50000					LTX040	COMPILE IIX INITIALIZATION		F2522910
		07400					LXC • 4	EVIT TIV INITIALIZATION.		F2522920
		02000					AC234	COMPILE TIX INITIALIZATION GROUP FOR THIS CASE. EXIT TIX INITIALIZATION. G=1, DOES		F2522930
06172					AC230		AX+1	G=19		F2522940
06173		50000					TAG2+3:1	DOES		
06174	-0	73400	2	00000			0•2	N3 = 1.		F2522950
06175	0	50000	2	01102			DOTAGZ+4,2			F2522960
06176	0	40200	0	05126			L(1)	•		F2522970
06177	-0	10000	0	06226			AC230I	G=1, DOES N3 = 1. NO. YES, DOES N1= 1.		F2522980
06200	0	50000	2	01100		CLA	DOTAGZ+2,2	YES, DOES NI= 1.		F2522990
06201	0	40200	0	05126		SUB	L(1)			F2523000
		10000				TNZ	ACI23	NO.		F2523010
		50000				CLA	DOTAGZ+3,2	NO. G.N3.N1 = 1. COMPILE TIX INITIALIZATION FOR THIS CASE. EXIT TIX INITIALIZATION. N3=1. N1 NOT = 1. COMPILE TIX		F2523020
		60100				STO	ORO00	COMPILE TIX		F2523030
		50000				CLA	KZAORO	INITIALIZATION		F2523040
		53400				LXA	L(2) .1	FOR THIS		F2523050
- ,		07400				TSX	LXC . 4	CASE.		F2523060
		02000				TRA	AC234	EXIT TIX INITIALIZATION.		F2523070
06210	ñ	07400	L	04741	ACT23		OP3 4	N3=1, N1 NOT = 1.		F2523080
		50000			7,0123		L(ADD)	COMPILE		F2523090
		60100					CIL01	TIX		F2523100
		50000				_	ORO00+13	TIX INITIALIZATION FOR THIS CASE.		F2523110
06214		73400					0,1	FOR		F2523120
		32000					60NES	THIS		F2523130
							CILOZ	CASE.		F2523140
06217		60100				_	CIL03+1			F2523150
		63400				-	CIT:4			F2523160
06221	_	07400					K3AORO	:		F2523170
06222		50000								F2523180
06223	0	53400	1	05126		LXA	L(1),1	•		
								·		

	06224	0	07400	4	07271		TSX	LXC+4	EXIT TIX INITIALIZATION. G =1, N3 NOT = 1. THIS CASE. RESET MODIFIED AORO. LXC L(4),1. LXD L(2),1.	F2523190
	06225	0	02000	0	06231		TRA	AC234	EXII IIX INITIALIZATION	F2523200
	06226	0	53400	1	05127	AC2301	LXA	L(2) 91	G =14 N3 NO! = 14	F2523210
	06227	0	50000	0	07372		CLA	LIXU42	THIS CASE.	F2523220
	06230	0	07400	4	07271		15%	LACTA	DECET MODIFIED ADDO.	F2523240
	06231	0	50000	0	05157	AC234	CLA	1N313	LYC 1/4/41	F2523250
	06232	0	60100	0	06424		510	AURU3U	LAC 2(4/91)	F2523260
	06233	0	50000	0	05156		CLA	1N312	LYD 1/21-1-	F2523270
	06234	0	90100	0	06430	16226	210	AV-1	EAD 6(2/910)	F2523280
	06235	-0	53400	1	05207	AC230	LAD	AC200-1-1		F2523290
	06236	2	00001	Ţ	06063	10240	TDA	AC010		F2523300
	06237	Ü	02000	v	05315	AC240	IKA	LADMY-2	START ARTS COMPILING.	F2523310
	06240	0	53400	2	05125		LAA	AC360+3-3-6	START ADTO COMPTETION	F2523320
	06241	. 1	00004	4	06242		CAD	XTC-2		F2523330
	06242	-0	63400	2	05231		CLA	TNICTO	1 (TPA AC244).	F2523340
	06243	ŏ	50000	v	00102		STA	14316 AC240	MODIFY RETURN FOR ADTG ENTRY	F2523350
	06244	ŭ	62100	0	06231		STA	AC016	HODELL KELOUIT LOK HOLD THEKE	F2523360
	06245	Ŏ	62100	O	05323		CIA	INSTIN		F2523370
	06246	Ŏ	50000	Ŏ	00100		STA	1N3110		F2523380
	06241	ŭ	02100	ů	0/51/5	AC244	TCY	ADTGSF 44	FIND VALID ADIG ENTRY	F2523390
	06250	Ö	07400	4	04310	ACZ44	TDA	AC250	END OF TABLE & GET NEXT DO	F2523400
_	06251		02000	Ŏ	06293	AC349	TVI	AC014-0	VALID ENTRY. CONTINUE AC CYCLE.	F2523410
D	06252	-3	00000	. 0	05320	AC250		INSTIL	REINITIALIZE	F2523420
	06253	0	50000	0	00104	ACZSO	CLA	AC240	INSTRUCTIONS	F2523430
. •	06254	ŏ	62100	Ü	05231		STA	AC016	MODIFIED	F2523440
	06255	O	62100	0	05323		CLA	TNETTO	FOR DATAG	F2523450
	06256	Ŏ	50000	0	05105		STA	1N3/12	CYCLE	F2523460
	06257	Ň	62100	ō	05113		CLA	FUCIND	COMPILE AT LEAST	F2523470
	06260	Ŭ	20000	0	00222		TZE	AC260	A RSS INST SO	F2523480
	06261	Ŏ	10000	٥	06212		CLA	AC200	THAT TRA INST	F2523490
	00202	ŏ	50000	0	05224		STO	ČIL00	WILL FUNCTION	F2523500
	06265	ŏ	00100	٥	05170		CIA	1.(0)	PROPERLY.	F2523510
	06264		40100	٥	05200		STO	CI1 02		F2523520
	06262	Ž	60100	~	05200		STO	CILOZ		F2523530
	06260	Ň	60100	٨	05056		CLA	LIRSSI		F2523540
	00201	0	40100	٥	05050		STO	C11 01		F2523550
	06270	ŏ	07400	v	0/2/5		TSY	CITAL		F2523560
	06271	-0	53400	4	04343	AC260	IXD	AC248.4	FND OF	F2523570
	06272	-0	02000	+	00232	ACZOO	TDA	1.4	ALPAHA CYCLE	F2523580
	00213	U	02000	7	00001		,,,,	****	ALPAHA CYGLES ************************************	*F2523590
			. •		•		-	COORO TAKES COEF	START ADTG COMPILING. L(TRA AC244). MODIFY RETURN FOR ADTG ENTRY. FIND VALID ADTG ENTRY. END OF TABLE . GET NEXT DO. VALID ENTRY. CONTINUE AC CYCLE. REINITIALIZE INSTRUCTIONS MODIFIED FOR DMTAG CYCLE. COMPILE AT LEAST A BSS INST SO THAT TRA INST WILL FUNCTION PROPERLY. END OF ALPAHA CYCLE. ************************************	F2523600
	06274	-0	63400	4	06277	CDORO	SXD	CDORO1 • 4		F2523610
	06275	-0	53400	2	05207		LXD	AX • 2		F2523620
	06276	-0	76000	ō	00144		MSE	100		F2523630
D	06277	3	00000	ñ	06300	CDORO1	TXH	CDOR01+1+0	WHICH SUB IS IT.	F2523640
U	06300	-3	00002	2	06307		TXL	CDOR03 • 2 • 2	S2 OR S3. TRA.	F2523650
	06301	0	50000	ō	03636		CLA	WRKSC	\$1,	F2523660
	06303	ñ	40200	n	05061		SUB	L1DEC	IS C1 GREATER THAN1.	F2523670
	06302	õ	10000	4	00001		TZE	1.4	C1=1, RETURN.	F2523680
	06304	õ	76000	Ô	00144		PSE	100	C1 NOT = 1, TURN ON	F2523690
	06305	Õ	50000	ñ	03636		CLA	WRKSC	**************************************	F2523700
	06306	ŏ	02000	ñ	06317		TRA	CDORO7+1		F2523710
	06307	õ	56000	õ	03644	CDORO3	LDQ	WRKSC+6	ISOLATE D1.	F2523720
	40301	•	20000	~	334.4					

06310	-3	00001	2	06313		TXL	CDOR05,2,1	WHICH SUB IS IT. S2. FORM C2D1.	F2523730 F2523740
06311	ő	20000	ō	03640		MPY	WRKSC+2	S2. FORM C2D1.	
06312						TRA	CDOR07	S3. FORM C3D1D2. ASSIGN SYMBOL FOR G AND PUT IN ORO + 19. RESTORE LINKAGE, PUT AX POSITION IN I.R. B AND RETURN.	F2523760
06313	Ō	20000	0	03642	CDORO5	MPY	WRKSC+4	\$3. FORM	F2523770
	ō	76500	ō	00022		LRS	18	C3D1D2+	F2523110
06315	. 0	20000	ñ	03645		MPY	WRKSC+7		F2523780
06316	Õ	76700	õ	00021	CDORO7	ALS	17	ASSIGN SYMBOL	F2523790
06317	ŏ	07400	ŭ	04601		TSX	FIXCON 4	FOR G AND PUT	F2523800
06320	ŏ	60100	'n	07611		STO	ORO00+19	IN ORO + 19.	F2523810
06320	-0	53400	4	06277		LXD	CDORO1,4	RESTORE LINKAGE.	F2523820
00351	-0	53400	2	05207			AX • 2	PUT AX POSITION IN	F2523830
06322	-0	02000	4	00001			1•4	I.R. B AND RETURN.	F2523840
00323	· ·	02000	7	00001		,,,,			
							ADDO. BODO. COPO.	DORO. AND FORO ARE CALLED TO MAKE APPROPRI	AF 2523860
							COMPTI ING TARIF (ORO) FATRIES AND TO CALLE ROUTINES TO MAKE	F2323010
							COMPUTATIONS AND	COMPILE INSTRUCTIONS TO INTIALIZE VARIABLE	DF 2523800
								COUCA D. C. D. AND E DECDECTIVELYA	トノラとろおりひ
	_			01241	AODO	CYD	AORO5+4		F2523900
06324	-0	63400	4	00340	AURU		TAG2+3+1	LOCATION IS	F2523910
06325	0	50000	7	03032			0,2	SPECIFIED IN ORO +14	F2523920
06326	-0	73400	4	00000		CLA	DOTAG7.2	BY COMBINING TETLOC	F2523930
06327	Û	50000	4	01010		ANA	DOTAGZ + 2 ADMSK	WITH PROPER BETA	F2523940
		32000				ALS	18	N. 111	F2523950
06331		76700					TETLOC		F2523960
06332	-0	50100	Ŏ	02222			ORO00+14		F2523970
	_	60100					DOTAGZ+4+2		F2523980
06334		50000					OR000		F2523990
06335		60100					AX+1	LOCATION IS SPECIFIED IN ORO +14 BY COMBINING TETLOC WITH PROPER BETA. S2 OR S3. S1 , IS C1=1. YES NO, ASSIGN SYMBOL FOR C1. IS SUB S2. YES, FOR C2D1. IF S2 IS A DUPE, ADD C1.	F2524000
06336	-0	53400	1	05201			AORO10+1+2	S2 OR \$3.	F2524010
06337	-3	00002	Ţ	00347			WRKSC	SI • IS	F2524020
06340	Ü	50000	0	05050			L1DEC	C1=1.	F2524030
06341	0	40200	Û	02001			AORO30	YFS	F2524040
06342	0	10000	0	06424			LIDEC	NO & ASSIGN	F2524050
		40000					FIXCON+4	SYMBOL FOR C1.	F2524060
06344		07400					ORO00+19	STRIBUL FOR GIV	F2524070
06345		60100					AORO40 + 0	·	F2524080
06346	-3	00000	0	06430	AURUS		AORO20 - 1 - 1	IS SUR S2.	F2524090
					AOROIO	1 7 5	AORO20,1,1 WRKSC+2	VES. FOR C2D1.	F2524100
06350		56000					WRKSC+6	IE 52 IS A	F2524110
06351		20000					WKKSCTO	DUPE. ADD CT.	F2524120
06352		76700				ALS	ED4080	DOLLA WOD CITA	F2524130
06353	-	60100					ERAORO		F2524140
06354		56000					TAG4	•	F2524150
06355		76300				LLS	20	•	F2524160
06356		76000			•	LBT	100016	NO DUPES.	F2524170
06357		02000				TRA	AORO14	NO DOFEST	F2524180
06360		50000				CLA	WRKSC		F2524190
06361		40000					ERAORO		F2524200
06362	0	60100	0	05245			ERAORO	CONTAINS CODIA FICA	F2524210
06363	0	50000	0	05245	AORO14	CLA	EKAUKU	ACCIGN CYMROL FOR	F2524220
06364		07400					FIXCON,4	C AND DIT IN OPO+10	F2524230
06365		60100				_	ORO00+19	G MAD COL TH OROTTA	F2524240
06366	0	02000	0	06430			AORO40	CO. FORM	F2524250
06367	0	56000	0	03642	AORO20	LDQ	WRKSC+4	331 FURFI	F2524260
06370		20000				MPY	WRKSC+6	NO DUPES. CONTAINS C2D1, ETC. ASSIGN SYMBOL FOR G AND PUT IN ORO+19 S3, FORM C3D1D2.	

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	06371	0	76500	٥	00022		LRS	18		F2524270
	06372		20000				MPY	WRKSC+7	•	F2524280
	06373		76700				ALS	17		F2524290
	06374	0	60100	0	05245			ERAORO	·	F2524300 F2524310
	06375	0	56000	0	03653			TAG4	CHECK DUPES	F2524310
	06376	0	76300	0	00032		LLS	26	AND MAKE G	F2524330
	06377		76000				LBT		ADJUSTMENTS	F2524340
	06400		02000					AORO24	ACCORDINGLY.	F2524350
	06401		77100				ARS	1		F2524360
	06402	_	76000				LBT	400000		F2524370
	06403	_	02000					AORO22		F2524380
	06404		56000					WRKSC+2	•	F2524390
	06405		20000				ALS	WRKSC+6		F2524400
	06406	_	76700					ERAORO		F2524410
	06407	-	40000					ERAORO		F2524420
	06410		60100			AORO22				F2524430
	06411		77100			MONOZZ	ARS			F2524440
	06412	_	76000	-			LBT	••	•	F2524450
	06413		02000					AORO24		F2524460
	06414		50000					WRKSC		F2524470
	06415		40000					ERAORO		F2524480
	06416		60100					ERAORO	•	F2524490
	06417	0	60100	Š	05245	AORO24				F2524500
	06420		07400			AONOLT	TSX	FIXCON,4	ASSIGN SYMBOL FOR	F2524510
	06422	_	60100					ORO00+19	G FOR S3.	F2524520
	06423	_	02000					AORO40		F2524530
	06424	Õ	53400	ĭ	05127	AORO30			SUB IS S1, C1=1.	F2524540
	06425		50000			.,	CLA	K2AORO	COMPILE CLA, STD.	F2524550
	06426		07400				TSX	LXC,4		F2524560
	06427	ō	02000	0	06433			AORO50		F2524570
	06430	Ö	53400	1	05130	AORO40	LXA	L(4) +1	COMPILE LDQ,MPY, STD.	F2524580
	06431		50000				CLA	K1AORO		F2524590
	06432	0	07400	4	07271			LXC,4		F2524600
	06433	-0	53400	4	06346	AORO50	LXD	AORO5,4	RESTORE LINKAGE.	F2524610 F2524620
	06434	0	02000	4	00001		TRA	1,4		
									**********	F2524640
	06435		63400			BORO		LINKC,4	FOR B BLOCK	F2524650
'	06436		56000					WRKSC+2	COMPUTE G AS	F2524660
	06437		20000					WRKSC+6	C2D1. PLACE	F2524670
	06440		76700				ALS		THIS AND C1 IN ORO.	F2524680
	06441		60100				-	OR000+19	IN ORU-	F2524690
	06442	-	50000					WRKSC		F2524700
	06443		60100					ORO00+20 L(2)+1	INITIALIZE N3X	F2524710
	06444		53400					N3X+1	POS. TO S2.	F2524720
		-0	63400	1	05212				INITIALIZE XX	F2524730
	06446	0	53400	1	05131			L(3)+1 XX+1	POS. TO SI.	F2524740
		-0	63400	ľ	05213			PC • 4	1000 10 040	F2524750
	06450	0	07400	4	06/01			LINKC,4		F2524760
		_	53400					1.4		F2524770
	06452	. 0	02000	4	00001		IIIM	***	*****************	F2524780
		- 0	63400	4	06465	CORO	SXD	CORO05 • 4		F2524790
			56000			20110		WRKSC+6	FORM C3D1D2 AND	F2524800
	06454	U	20000	U	05044					

	06455	0	20000	0	03645			WRKSC+7	STORE IN ORO+19 FOR USE BY PC IN COMPUTING BLOCK C DECREMENTS. TEST FOR DUPES. NO DUPES. IF DUPES, FORM C2D1, ADD TO ORO+19, AND STORE IN ORO+19 FOR USE BY PC. SET N3X POSITION TO S3, XX POSITION TO S1 AND CALL PC TO COMPUTE AND COMPILE BLKC INIT. RESTORE LINKAGE AND RETURN TO MAIN ROUTINE.	F2524810
	06456		76500				LRS	18	OKUTIY	F2524620
	06457	_	20000	_				WRKSC+4	FOR USE BY	F252403U
	06460		76700				ALS	17	PC IN COMPUTING	F2524840
	06461		60100					ORO00+19	BLOCK C DECKEMENTS.	F2524850
	06462		50000					TAG4	TEST	F2524860
	06463	_	77100				ARS	9	FOR	F2524810
	06464	0	76000	0	00001		LBT		DUPES.	F252460U
	06465					CORO05		CORO10 • 0	NO DUPES.	F2524890
	06466		56000					WRKSC+6	IF DUPES, FORM	F2524900
	06467		20000					WRKSC+2	CZDI; ADD 10	F2524910
	06470		76700				ALS	17	ORO+19 • AND STORE	F2524920
	06471		40000					ORO00+19	IN ORO+19 FOR	F2524930
	06472	0	60100	0	07611			ORO00+19	USE BY PC.	F2524940
	06473					CORO10	LXA	L(1) •1	SEI NOX POSITION	F2524950
	06474		63400					N3X+1	TO 539	F2524960
	06475		53400					L(3),1	XX POSITION TO ST	F2524970
			63400					XX+1	AND CALL PC TO COMPUTE	F2524980
	06477		07400				TSX	PC 94 CORO05 94 1 94	AND COMPILE BLKC INIT	F2524990
	06500		53400				LXD	COROO5 • 4	RESTORE LINKAGE AND	F2525000
	06501	0	02000	4	00001		TRA	1,4	REJURN TO MAIN ROUTINE	F 2525010
								*****	RETURN TO MAIN ROUTINE. ***********************************	F2525020
			63400			DORO	SXD	DORO5 • 4	COMPLETE CARLES	F2525030
	06503		56000				LDG	WRKSC+4	COMPOSES CONTOURS OF	F2525040
	06504		20000				MPT	WRKSC+6	AND CZDI	F2525020
	06505		76500				LRS	18	EXIST IN THE CASE	F2525060
	0 6506		20000				MPY	WRKSC+7	IN THE CASE 101	F2525010
	06507		76700				ALS	17	IN THE CASE TOT	F2525080
	06510	_	60100		-		510	ORO00+19	CI ADDED TO GI.	F2525090
	06511		56000				LDQ	WRKSC+2		F2525130
	06512		20000				MPY	WRKSC+6		F2525110
	06513		76700				ALS	00000130		F2525120
	06514		60100				510	ORO00+20		F2525140
,	06515		50000					TAG4	•	F2525140
	06516		77100				ARS	y 		F2525160
			32000					L(7)		F2525170
	06520		10000				LBT	DORO20		F2525180
	06521	· U	76000	0	10000	20005		DORO10+0		F2525190
			00000			DURUS		DOKOTOJO		F2525200
	06523	-	50000	_				WRKSC OROOO+19		F2525210
	06524	_	40000	-				ORO00+19		F2525220
	06525		60100					00000719		F2525230
	06526	0	02000	Ô	06532	0.000		DORO20	\cdot	F2525240
	06527					DORO10	ADD	ORO00+20		F2525250
	06530		40000					ORO00+20		F2525260
	06531		60100			ροροσο		L(1)+1	SET NAX POS. TO SA.	F2525270
	06532					DURUZU		N3X+1		F2525280
			63400					L(2)+1	XX POS. TO SZ.	F2525290
	06534		53400					XX+1	NA 1004 10 024	F2525300
			63400					PC•4	MAKE COMPUTATIONS AND COMPILE	F2525310
			07400					DORO5+4	INSTRUCTIONS TO INIT. VAR.	F2525320
			53400 02000				TRA	1.4	BLOCK D DECREMENTS	F2525330
	06540	U	02000	-	00001		1117	*****	SET N3X POS. TO S3. XX POS. TO S2. MAKE COMPUTATIONS AND COMPILE INSTRUCTIONS TO INIT. VAR. BLOCK D DECREMENTS.	F2525340

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06541 -0 63400 4 06645 EORO	SXD EOROO6:4		F2525350
06542 0 07400 4 06502	TSX DORO • 4	COMP. INSTR. FOR 1ST TXI-SXD-TIX.	F2525360
06543 0 50000 0 07605	CLA OROOO+15	UPDATE	F2525370
06544 0 40000 0 05110	ADD L(8)	TXI RELATIVE	F2525380
06545 0 60100 0 07604	STO ORO00+14	INSTRUCTION NUMBER.	F2525390
06546 0 40000 0 05135	ADD L(16)	UPDATE TIX RELATIVE	F2525400
06547 0 60100 0 07605	STO ORO00+15	INSTRUCTION NUMBER.	F2525410
06550 0 53400 1 05131	LXA L(3) •1	SEE IF	F2525420
06551 0 50000 1 03652	CLA TAG2+3+1	X FOR	F2525430
06552 -0 73400 2 00000	PDX 0+2	XX POSITION	F2525440
06553 0 50000 2 01103	CLA DOTAGZ+5+2	IS	F2525450
06554 -0 32000 0 05137	ANA BIT2	COMPUTABLE.	F2525460
06555 0 10000 0 06644	TZE EOROO6-1	X COMPUTABLE.	F2525470
06556 0 50000 2 01102	CLA DOTAGZ+4+2	X NOT COMPUTABLE,	F2525480
06557 0 40200 0 05126	SUB L(1)	IS N3=1.	F2525490
06560 -0 10000 0 06644	TNZ EOROO6-1	N3 NOT =1.	F2525500
06561 0 50000 2 01100	CLA DOTAGZ+2,2	N3=1, IS	F2525510
06562 0 40200 0 05126	SUB L(1)	N1 = 1.	F2525520
06563 -0 10000 0 06610	TNZ EORO2	N1 NOT = 1.	F2525530
06564 0 50000 0 03636	CLA WRKSC	N3 • NU = 1 •	F2525540
06565 0 40200 0 05061	SUB LIDEC	DOES C1=1.	F2525550
06566 -0 10000 0 06571	TNZ EORO1	NO •	F2525560
06567 0 50000 2 01101	CLA DOTAGZ+3+2	N3 • N1 • C1 = 1 •	F2525570
06570 0 02000 0 06674	TRA EORO22	ISOLATE N2 SYMBOL.	F2525580
06571 0 50000 2 01101 F0R01	CLA DOTAGZ+3.2	ISOLATE	F2525590
06572 0 60100 0 07566	STO OROGO	N2 SYMBOL.	F2525600
06572 0 50000 0 03636	CLA WRKSC	ASSIGN SYMBOL	F2525610
06574 0 07400 4 04601	TSX FIXCON 4	FOR C1, AND	F2525620
06575 0 60100 0 07611	STO ORO00+19	COMPILE LDQ L(N2),	F2525630
06576 0 50000 0 07360	CLA K1AORO	MPY L(C1). ARS 17.	F2525640
06577 0 53400 1 05131	LXA L(3) •1		F2525650
06600 0 07400 4 07271	TSX LXC+4		F2525660
06601 0 53400 1 05126 FOR03	LXA L(1) •1	COMPILE	F2525670
06601 0 55400 1 05120 20105	CLA LXCIE1	SUB L(1),	F2525680
04402 0 07400 4 07271	TSX LXC.4		F2525690
06605 0 07400 4 07211	TXI EORO3+4.1.1	COMPILE	F2525700
06604 1 00001 1 00009	CLA LXCEIP	STD L(TIX), STD L(TXI).	F2525710
06605 0 50000 0 07400	TSX LXC+4	;	F2525720
06607 0 02000 0 06664	TRA EORO18+3		F2525730
06607 0 02600 0 06604 06610 0 07600 6 06741 FORO2	TSX OP3.4	COMPILE CLA (N2 - N1)	F2525740
06610 0 01400 4 04141 20101	CLA WRKSC	OR CLA N2 SUB N1.	F2525750
06611 0 50000 0 05061	SUB LIDEC	DOES C1=1.	F2525760
06612 0 40200 0 05601	TZF FORO3	UES. EORO3.	F2525770
06615 0 10000 0 05054	CLA L(ADD)	NO. COMPILE	F2525780
06014 0.50000 0.05054	STO CILOI	ADD L(1) •	F2525790
06615. 0 60100 0 03177	CLA 0R000+13	STO 1)+3:	F2525800
00010 0 30000 0 07003	PAX 0.4	COMP. INSTR. FOR 1ST TXI-SXD-TIX. UPDATE TXI RELATIVE INSTRUCTION NUMBER. UPDATE TIX RELATIVE INSTRUCTION NUMBER. SEE IF X FOR XX POSITION IS COMPUTABLE. X COMPUTABLE. X NOT COMPUTABLE, IS N3=1. N3 NOT =1. N3=1, IS N1 = 1. N1 NOT = 1. N3+NU = 1. DOES C1=1. NO. N3, N1, C1 = 1 . ISOLATE N2 SYMBOL. ASSIGN SYMBOL FOR C1, AND COMPILE LDQ L(N2), MPY L(C1), ARS 17. COMPILE SUB L(1), COMPILE SUB N1. DOES C1=1. UES, EORO3. NO. COMPILE ADD L(1), STO 1)+3, AND GO TO EORO3.	F2525810
00011 U 13400 4 00000	ANA CONES	MPY L(Cl.+	F2525820
06620 -0 32000 0 05104	STO CILO2	ALS 17.	F2525830
06621 0 60100 0 05200	SYD CILO3.4	STO 1)+3.	F2525840
06622 TU 03400 4 03201	TSY CIT.4	AND GO TO	F2525850
00023 0 01400 4 04343	CLA LISTO	FORO3	F2525860
06624 0 20000 0 02044	STO CHOI		F2525870
06625 0 60100 0 05177	CLA ORODO+26	•	F2525880
06626 0 50000 0 07620	CLA UNOUUTZU		

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F2525890
      0 60100 0 07567
                              STO ORO00+1
06627
                                                                                                F2525900
06630 0 73400 4 00000
                              PAX 0.4
                                                                                               F2525910
                              ANA 60NES
06631 -0 32000 0 05104
                                                                                               F2525920
                              STO CILO2
06632 0 60100 0 05200
                              SXD CILO3,4
                                                                                               F2525930
06633 -0 63400 4 05201
                                                    FIXCON SYMBOL
                                                                                               F2525940
                              TSX CIT+4
06634 0 07400 4 04345
                              CLA WRKSC
                                                    FOR C1.
                                                                                               F2525950
      0 50000 0 03636
06635
                                                                                               F2525960
                              TSX FIXCON,4
      0 07400 4 04601
06636
                                                                                               F2525970
                              STO ORO00+9
06637 0 60100 0 07577
                                                                                               F2525980
                              CLA KLX02I
      0 50000 0 07352
06640
                              LXA L(4) .1
                                                                                               F2525990
      0 53400 1 05130
06641
                                                                                               F2526000
                              TSX LXC+4
06642 0 07400 4 07271
                                                                                               F2526010
06643 0 02000 0 06601
                              TRA EORO3
                              TSX PXORO 4
                                                    C1 GREATER THAN 1.
                                                                                               F2526020
06644 0 07400 4 07226
                                                                                               F2526030
06645 -3 00000 0 06647 EORO06 TXL EORO08 +0
                                                    X CONSTANT, EORO20.
                                                                                               F2526040
                              TRA EORO20
06646 0 02000 0 06666
                                                    X NOT CONST.,
                                                                                               F2526050
06647 0 53400 1 05106 EORO08 LXA L(6) 1
                                                    COMPILE
                              CLA WRKSC
                                                                                               F2526060
      0 50000 0 03636
06650
                                                    INSTRUCTIONS
                              SUB LIDEC
                                                                                               F2526070
06651 0 40200 0 05061
                              TZE EORO15
                                                    TO COMPUTE
                                                                                               F2526080
      0 10000 0 06657
06652
                                                    XGN3.
                                                                                               F2526090
                              TXI EORO10,1,2
      1 00002 1 06654
06653
      0 50000 0 03636 EORO10 CLA WRKSC
                                                                                               F2526100
06654
                              TSX FIXCON 4
                                                                                               F2526110
06655
      0 07400 4 04601
      0 60100 0 07577
                              STO 0R000+9
                                                                                               F2526120
06656
       0 50000 0 07373 EORO15 CLA LXCI
                                                                                               F2526130
06657
                                                                                               F2526140
      0 07400 4 07271
                              TSX LXC+4
06660
       0 53400 1 05130 EORO18 LXA L(4)+1
                                                    COMPILE LLS, SUB,
                                                                                               F2526150
06661
                              CLA LXCIE
                                                    STD.STD.
                                                                                               F2526160
       0 50000 0 07375
06662
                                                                                               F2526170
                              TSX LXC 94
      0 07400 4 07271
06663
                                                                                              F2526180
                              LXD EOROO6 4
06664 -0 53400 4 06645
                                                                                              F2526190
                              TRA 1,4
06665 0 02000 4 00001
      0 76500 0 00043 EORO20 LRS 35
                                                                                              F2526200
06666
                              NOP
                                                                                              F2526210
06667
      0 76100 0 00000
                              MPY WRKSC
                                                                                              F2526220
      0 20000 0 03636
06670
                                                                                              F2526230
                              ALS 17
      0 76700 0 00021
06671
                                                                                              F2526240
                              NOP
      0 76100 0 00000
06672
                                                                                              F2526250
                              TSX FIXCON•4
      0 07400 4 04601
06673
      0 60100 0 07612 EORO22 STO ORO00+20
                                                    PUT SYMBOL IN
                                                                                              F2526260
06674
                                                   ORO+20 AND COMPILE
                                                                                              F2526270
                              LXA L(1) 1
      0 53400 1 05126
06675
                                                    CLA (SYMBOL),
                              CLA LXCIEP
                                                                                              F2526280
      0 50000 0 07377
06676
                              TSX LXC,4
                                                                                              F2526290
      0 07400 4 07271
06677
                              TRA EORO3
                                                                                              F2526300
06700 0 02000 0 06601
                                  PC IS A SUBROUTINE CALLED BY AORO, BORO, ETC. TO MAKE COMPUTAF2526320
                                  TIONS AND TO CALL COMPILING ROUTINES FOR TXI DECREMENT INTIAF2526330
                                  LIZATION.
                                                                                              F2526340
                              SXD PC04+4
                                                                                              F2526350
06701 -0 63400 4 06717 PC
                                                                                              F2526360
                             LXD N3X,1
06702 -0 53400 1 05212
                              CLA TAG2+3:1
                                                                                              F2526370
06703 0 50000 1 03652
                                                                                              F2526380
                             PDX 0.2
06704 -0 73400 2 00000
                              CLA DOTAGZ +2
                                                                                              F2526390
06705 0 50000 2 01076
                             ANA ADMSK
                                                   FORM LOCATION
                                                                                              F2526400
06706 -0 32000 0 05141
                                                   WORDS AND PUT
                                                                                              F2526410
                             ALS 18
06707 0 76700 0 00022
                             ORA TETLOC
                                                   IN ORO+14
                                                                                              F2526420
06710 -0 50100 0 05255
```

06711	0	60100	07604		O ORO00+14	AND ORO+15. IS N3 FOR THIS DO VARIABLE. NO, PC10. YES, COMPILE LDQ L(G), (N3X POS.), MPY N3, (N3X POS.), ALS 17, STO C(ORO+12) N3 CONSTANT, PUT N3G SYMBOL IN		F2526430 F2526440
06712		40000			D L(16)			F2526450
06713		60100		ST	O ORO00+15	10 NO FOR THIS DO		F2526460
06714		50000		CL	A DOTAGZ +2 S 15	IS N3 FOR THIS DO		F2526470
06715		77100			S 15	VARIABLE.		F2526480
06716		76000			T			F2526490
06717	-3	00000	06731	PC04 TX	L PC10+0	NO+ PC10+		F2526500
06720	0	50000	2 01102		A DOTAGZ+4•2	YES,		F2526510
06721	0	60100	07566		O OROOO	COMPILE		F2526520
06722	0	50000	07611	CL	A ORO00+19	LDQ L(G), (N3X POS.),		F2526520
06723		07400	04601		X FIXCON,4	MPY N3, (N3X POS.),		F2526530 F2526540
06724	0	60100	07611	ST	O ORO00+19	ALS 17,		F2526550
06725		53400			A L(4) •1	STO C(ORO+12)		F2526330
06726		50000			A K1BORO			F2526560
06727		07400	+ 07271	. TS	X LXC • 4		•	F2526570
06730	0	02000	06736	TR	A PC20	•		F2526580
06731		56000			Q DOTAGZ+4,2	N3 CONSTANT, PUT		F2526590
06732		20000			Y ORO00+19	N3G SYMBOL IN		F2526600
06733		76300		LL	\$ 35	ORO+19		F2526610
		07400			X FIXCON,4			F2526620
06735		60100			O ORO00+19			F2526630
06733	-0	53400	01011		D XX+1	ISOLATE N3 FOR		F2526640
06730	-0	50000	03652	PCI CI	D XX+1 A TAG2+3+1	XX POSITION		F2526650
06751	-0	73400	00002		X 0,2			F2526660
		50000			A DOTAGZ+4+2	DOES N3 = 1.		F2526670
06741	0	40200	01102		B L(1)			F2526680
06742		10000			Z PC21	NO PC22		F2526690
06743	-0	50000	01050		A DOTAGZ+5.2	N3 CONSTANT, PUT N3G SYMBOL IN ORO+19 ISOLATE N3 FOR XX POSITION DOES N3 = 1. NO, PC22. YES, IS X CONST. YES, PC21. NO, IS POS. S2. NO, IS N1 = 1. NO, PCI22. YES, DOES C1 = 1.		F2526700
					A BIT2	, 20, 20 1, 31, 27,	•	F2526710
-		32000			E PC21	YES. PC21.		F2526720
06746		10000			L PCI31+1+2	NO. IS POS. SZ.		F2526730
06747	-3	00002	0/02/		A DOTAGZ+2,2	NO. IS N1 = 1.		F2526740
06750	0	50000	2 01100		B L(1)	109 10 112 21		F2526750
06751	- 0	40200	05126	30	Z PCI22	NO. PC122.		F2526760
06752	-0	10000	06//3		A DOTAGZ+3,2	VES. DOES C1 = 1.		F2526770
		50000			0 000001	1207 0020 01 17		F2526780
06754		60100			0 ORO00+1			F2526790
06755		50000					•	F2526800
06756	0	40200	05061		B LIDEC	NO. DCI31.		F2526810
		10000			Z PCI21	NOT PCIZIO		F2526820
06760	-	53400			A L(1) +1	TEST COMPILE		F2526830
06761		50000			A KLX02	CLA NI)		F2526840
06762	0	07400	4 07271		X LXC+4	SUBL(11) AND		F2526850
06763	0	02000	07044		A PCI33			F2526860
06764	0	50000	03636	PCI21 CL	A WRKSC			F2526870
06765	0	07400	4 04601		X FIXCON:4	COMPILE		F2526880
06766		60100	07577		O ORO00+9	LDQ L(NZ)		
06767		50000			A KLX02I	MPY LC1)		F2526890
06770		53400			A L(4) +1	ALS 17		
06771		07400			X LXC+4	STO 1) +3.		F2526910
06772	Ö	02000	07113	TR	A PC60	NO; PCI21. YES; COMPILE CLA N1; SUBL(1); AND COMPILE LDQ L(N2) MPY LC1) ALS 17 STO 1) +3. COMPILE CLA L(N2-N1) IS C1 = 1. YES; PC 60.		F2526920
06773	ő	07400	4 04741	PCI22 TS	X OP3 • 4	COMPILE CLA L(N2-N1)		F2526930
06774	ñ	50000	0.03636	CL	A WRKSC			F2526940
06775		40200			B LIDEC	IS C1 = 1.		F2526950
06776	_	10000			E PC60	YES, PC 60.		F2526960 ·
00110	v	10000	- 4:44					

06777	Ω	50000 0	03636		CLA	WRKSC		NO, OBTAIN			F2526970
07000		07400 4				FIXCON,4		SYMBOL FOR			F2526980
07001		60100 0			STO	OR000+9		C1 AND			F2526990
07002				PCI22R	CLA	L(ADD)		COMPILE			F2527000
07003		60100 0			STO	CIL01		ADD L(1)			F2527010
07004		50000 0				ORO00+13		STO 1) +3			F2527020
07005		73400 1			PAX	0,1		LDQ 1) +3			F2527030
		63400 1				CIL03,1		MPY L(G)			F2527040
		32000 0			ANA	60NES		ALS17			F2527050
07010		60100 0				CILO2		STD 1) +3		•	F2527060
07011		07400 4				CIT,4		SUB L(1);			F2527070
07012		50000 0				L(STO)		THEN GO		•	F2527080
07012	-	60100 0				CILO1		TO PC60.			F2527090
07013	_	50000 0				ORO00+26					F2527100
		60100 0			_	ORO00+1					F2527110
07015		73400 4				0,4					F2527120
07016		32000 0				60NES					F2527130
		60100 0				CILO2					F2527140
07020						CIL03,4					F2527150
	~~	63400 4 07400 4	0/2/5			CIT+4					F2527160
07022						L(4),1					F2527170
07023		53400 1 50000 0				KLX02I					F2527180
07024						LXC • 4					F2527190
07025		07400 4				PCI33					F2527200
07026		02000 0		0.01.21		ORO00+20		XX POS 2 . X VAR. N3 = 1.			F2527210
07027		50000 0		PCISI		FIXCON +4		ASSIGN SYMBOL FOR G			F2527220
07030		07400 4				ORO00+9		AND PUT IN ORO+9			F2527230
07031	_	60100 0	•			DOTAGZ+2+2		15 N1 = 1			F2527240
07032		50000 2				L(1)		XX POS 2 , X VAR., N3 = 1. ASSIGN SYMBOL FOR G AND PUT IN ORO+9 IS N1 = 1 YES, PCI32. NO, COMPILE CLA (N2-N1) OR CLA N2, SUB N1. COMPILE LDQ N2. MPY G, ALS 17. STO1)+3. IS X CONSTANT. NO. PC22.			F2527250
07033		40200 0				PC132		YES. PC132.			F2527260
07034		10000 0				OP3+4		NO. COMPILE CLA (N2-N1)			F2527270
07035		07400 4				PCI22R		OR CLA N2 SUB N1.			F2527280
07036		02000		06102		DOTAGZ+3,2		COMPTIE			F2527290
07037		50000 2		PC132				LDO NZA			F2527300
97040		60100 0				ORO00+1		MPY GA			F2527310
07041	_	53400 1				L(4) •1		AI C 174			F2527320
07042		50000 0				KLX02I		CTO1142.			F2527330
07043		07400 4				LXC • 4	,	31017+39			F2527340
07044		53400 1		PCI 33		L(1),1					F2527350
07045		50000 0				LXC161					F2527360
07046		07400 4				LXC,4					F2527370
07047		02000 0				PC60		1.C V. CONSTANT.			F2527380
07050	0	07400 4	07226	PC21		PXORO,4		NO+ PC22+			F2527390
07051		02000 0				PC22		YES. PC50.			F2527400
07052	0	02000 0	07102			PC50		Y NOT CONSTANT			F2527410
07053	-0	53400 1	05213	PC22		XX+1		X NOT CONSTANT,			F2527420
07054	-3	00002 1	07073			PC40+1+2		IS X CONSTANT. NO. PC22. YES. PC50. X NOT CONSTANT. IS POSITION S1. TES. COMPILE INSTRUCTIONS			F2527430
07055	0	53400 1	05106			L(6) +1		TES, COMPILE			F2527440
07056	0	50000 0	03636			WRKSC		INSTRUCTIONS			F2527450
07057	0	40200 0	05061			LIDEC		TO COMPUTE			F2527460
07060	0	10000 0	07065			PC30		N3X-1; AND			F2527470
07061	1	00002 1	07062			PC25,1,2		TO TO PC60.			F2527480
07062	0	40000 0	05061	PC25	,	L1DEC					F2527490
07063	0	07400 4	04601			FIXCON 4			•		F2527500
07064		60100 0			STO	ORO00+9		•			1 232 1900

3:0

								•	
07065	0	50000	n	07373	PC30	CI A	LXCI.		F252 7 510
07066		07400			. 450		LXC,4		F2527520
07067	_	53400				LXA	L(2)+1		F2527530
07070	0	50000	0	07374		CLA	LXCI6		F2527540
07071	0	07400	4	07271		TSX	LXC • 4		F2527550
07072	0	02000	0	07113		TRA	PC60		F2527560
07073	0	50000	0	07612	PC40	CLA	ORO00+20	POS. IS S2.	F2527570
07074	0	07400	4	04601		TSX	FIXCON,4	POS. IS S2. COMPILE INSTRUCTIONS TO COMPUT N3X-1 AND GO TO PC60. X IS CONSTANT. FORM GN3X-1 FOR XX POS. AND COMPILE	F2527580
07075	0	60100	0	07612		STO	ORO00+20	TO COMPUT N3X-1 AND	F2527590
07076	0	53400	1	05134			L(10) +1	GO TO PC60.	F2527600
07077	0	50000	0	07403			LX2CI		F2527610 F2527620
07100	_	07400					LXC+4		F2527630
07101		02000					PC60	w to concerne	F2527640
07102		76500			PC50	LRS	35	X IS CONSTANT,	F2527650
07103		20000					ORO00+20	FORM GN3X-1 FOR	F2527660
07104	-	76700	-			ALS	17	XX POS AND COMPILE	F2527670
07105	-	40200	-				L1DEC	•	F2527680
07106	_	07400					FIXCON:4		F2527690
07107	-	60100	_				ORO00+20		F2527700
07110	_	53400	-				L(1) •1		F2527710
07111		50000				CLA	XK	IS	F2527720
07112	0	07400	4	07271			LXC • 4		F2527730
		53400			PC60		N3X+1	16	F2527740
07114		50000					TAG2+3:1	13	F2527750
		73400					0,2	N3 OF	F2527760
07116		53400					L(3)+1	CURRENT	F2527770
07117		50000					DOTAGZ • 2	CURRENT	F2527780
07120	_	77100	-			ARS	15	OF CURRENT DO VARIABLE. CONSTANT, PC61. VARIABLE, COMPILE STD, ADD N3G, STD.	F2527790
07121		76000	-			LBT	0643	CONSTANT. DC61	F2527800
07122	_	02000	-				PC61	VADIABLE COMPILE	F2527810
07123		50000			0660		LXC18	STD. ADD N3G. STD.	F2527820
07124		07400					PC04+4	SIDY ADD ROOF SIDE	F2527830
		53400					1,4		F2527840
07126	_	02000 50000			DC41		LXCI8P	CONSTANT. COMPILE STD, ADD C(ORO+12), STD.	F2527850
07127		02000			PCOI		PC62	STD. ADD C(ORO+12). STD.	F2527860
07130	U	02000	U	01124		INA	*****	*******	F2527870
							CILO31 FILLS OUT	LOCATION AND TAG NAME WORDS FOR COMPILED INS	F2527880
	-								F2527890
07131	Λ	50000	٥	05122	CIL03I	C1 A	1 (0)	PLACE O IN LOCATION	F2527900
07132	ň	60100	٥	05176	CILOJI	STO	CILOO	WORD AND TAG IN	F2527910
07132		50000					TAG3	TAG WORD OF COMPILED	F2527920
		32000					ADMSK	LOCATIONS. PLACE O IN LOCATION WORD AND TAG IN TAG WORD OF COMPILED INSTRUCGIN.	F2527930
07135		60100					CIL03		F2527940
07136		02000					1,4		F2527950
01130	٠	02000	7	00001		****	*****	**************************************	F252 79 60
							RITE CHECKS SUBSCE	RIPTS FOR DEFINITION. IF DEFINED BY RELCON	F2527970
							OR DOSUB IT OBTAIN	NS OBJECT PROGRAM SYMBOLS FOR N1 OR S1 RESPE	F2527980
							CTIVELY.		F2527990
07137	0	62100	0	07162	BITP	STA	BITP14		F2528000
07140	_	62100	-		J	_	BITP02	INITIALIZE SHIFTS,	F2528010
07141		62100					BITP04	STORE LINKAGE	F2528020
07142	-	73400	-				0,2	AND PLACE 0,1,2 IN	F2528030
07143		76700				ALS	-	XB FOR S3, S2, AND	F2528040
4.2.7	-		•						

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07224	-0	60200	0	05255		ORS	TETLOC	DECREMENT.	F2528590
		02000				TRA	1,4		F2528600
•								**************	
							PREFACE TO ORO EX	AMINES VARIABLIITY OF X QUANTITY.	F2528620
07226	0	50000	1	03652	PXORO		TAG2+3 • 1	2 2.	F2528630
		73400	2	00000			0,2		F2528640
07230	0	50000	2	01103			DOTAGZ+5,2	LEFT IN THE	F2528650
07231	-0	32000	0	05137			BIT2	DECREMENT OF	F2528660
07232	-0	10000	0	07237			XORO	7.0	F2528670
07233		50000					DOTAGZ+5+2		F2528680
07234	-0	32000	0	05141			ADMSK		F2528690
07235	0	76700	0	00022		ALS			F2528700
07236	0	02000	4	00002		TRA	2,4		F2528710

								O FOR N1, N2, N3, GIVEN DO IN B AND POS IN A	F2528740
07237		63400			XORO		XORO32 • 4		F2528750
07240	-	50000	_				DOTAGZ • 2		F2528760
07241		77100				ARS	15		F2528770
		32000					L(7)	•	F2528780
07243	_	60100					N1N2N3	ORIGIN OF ORO TARLE.	F2528790
07244		50000					L(ORO)	CALCIDATES ADDRESS	F2528800
07245		40000					L(4)	EOD CTODING INTO	F2528810
07246		00002					XORO10,1,2 L(3)	ODO TARIF.	F2528820
07247	0	40000	0	05131	v00010		V0P020 - 1 - 1	ORO TABLES	F2528830
07250					YOROTO	1 7 1	XORO20,1,1 L(17)		F2528840
07251	-	40000	0	05066	XORO20		Y00036	STORE ADRS FOR NS.	F2528850
07252					XURUZU	SIA	L(3) • 1	STORE ADAS TOR HOU	F2528860
07253	0	53400	Ţ	02131	XORO30		MINONA MINONA		F2528870
07254	O	77200	ū	00000	AURUSU	POI	36 • 1		F2528880
		77300					DOTAGZ+2,2		F2528890
07256		50000 16200					XORO34	N IS CONSTANT.	F2528900
07257	- 3	10200	٥	07263	XORO32		,,		F2528910
	-5	76700	ň	00022	XORO34	ALS	18		F2528920
07261 07262	Ô	07400	4	04601	XONO 5-4	TSX	FIXCON+4		F2528930
07263	0	60100	1	00000	XORO36	STO	0,1		F2528940
07264		00001			,,,,,,,,,	TIX	XORO40,2,1		F2528950
07265	2	00001	ī	07254	XORO40	TIX	XOR030+1+1		F2528960
07266		60100				STO	ORO00		F2528970
		53400				LXD	XORO32 • 4		F2528980
07270	_	02000				TRA	1,4		F2528990
01210	•	••••					****	**************************************	F2529000
							THIS ROUTINE EXAMI	INES A BLOCK OF CONSTANTS AND COMPILES ONE I	F2529010
							INSTRUCTION FOR EA	ACH. THE CALLER INDICATES THE FIRST CONSTAN	F2529020
								THE ACCUMULATOR, AND INDICATES THE NUMBER O	F2529030
							•. •	, index its order in	F2529040
07271	-0	63400	4	07336	LXC		LXC19+4		F2529050
07272	0	60100	0	05206		STO	ERLXC		F2529060
		75400	1	00000		PXD	0 + 1	·	F2529070
07274		77100				ARS	18		F2529080
07275	0	40000	0	05206			ERLXC		F2529090
07276	0	62100	0	07312			LXC10		F2529100
07277	0	50000	0	05222			LOCIND	TEST TO SEE IF	F2529110
07300		10000				TZE	LXC08	TEST TO SEE IF THIS IS THE FIRST	F2529120

		4.000	^	05126		CHR	L(1)		LYD COMPILED. IF SO.	F2529130
07301	Ň	40200	Ň	05222			LOCIND		PLACE A IN	F2529140
0/302	v	90100	٥	05222		-	DOIND,2		DECREMENT	F2529150
67303	-0	53400	~	05230			DOTAGZ • 2		OF LOCATION WORD	F2529160
07304	0	50000	2	01076					END EIDST COMPILED	F2529170
07305	-0	32000	0	05142			DECMSK		INCIDICATION.	F2529180
07306	. 0	60100	0	05176			CIL00		INSTRUCTION	F2529190
07307	0	02000	0	07312			LXC10			
07310	0	50000	0	05133	LXC08	CLA	L(0)		LXD COMPILED. IF SO, PLACE A IN DECREMENT OF LOCATION WORD FOR FIRST COMPILED INSTRUCTION. SKELETAL INSTRUCTION. COMPILE OP. WORD.	F2529200
07311	٥	60100	0	05176		STO	CIL00			F2529210
07312	0	56000	1	00000	LXC10	LDQ	.0.1		SKELETAL INSTRUCTION.	F2529220
07313	0	76300	0	00000		LLS	0			F2529230
07314	-0	76300	0	00022		LGL	18			F2529240
07315	-0	60000	0	05177		STQ	18 CILO1		COMPILE OP. WORD.	F2529250
07316	-0	12000	0	07337		TMI	LXC20			F2529260
 07317	ō	62100	Õ	07320		STA	LXC15		SYMBOL . ADDR. TYPE INSTRUCTION.	F2529270
07320	ŏ	50000	ŏ	00000	LXC15	CLA				F2529280
07321	ñ	60100	ŏ	05200			CIL02		SYMBOLIC ADDRESS.	F2529290
07321	ň	50100	٥	05133			L(0)		RELATIVE	F2529300
01322	Š	60100	Š	05133			CIL03		ADDRESSA	F2529310
01323	ŏ	00100	Ň	05201			CILO2		TEST CILO2	F2529320
07324	-0	50000	ŏ	05200			60NES		WORD.	F2529330
07325	-0	32000	ō	05104			LXC30		FIRST CHARACTER IS 7FRO.	F2529340
07326	0	10000	0	07344			BITO1		INST CHARACTER IS EERO	F2529350
07327	~0	32000	0.	05102			PIIOI		EIDET CHADACTED ALDHARETIC.	F2529360
07330	-0	10000	0	07344			LXC30		EIDET CHADACTED NIMBEDICA	F2529370
07331	-0	50000	0	05200			CIL02		PLACE DETCHT HAVE OF CIVOS	F2529380
07332	0	76700	0	00022		ALS	18		PLACE REIGHT HALF OF CILUZ	F2527300
		62200					CIL03		IN CILUSS LEFT HALF	F2529390
07334	-0	50000	0	05104			60NES		IN CILOZ.	F2529400
07335	0	32000	0	05200			CIL02		THE PURE THE PROPERTY.	F2529410
07336	-3	00000	0	07344	LXC19	TXL	LXC30+0		SHIF TYPE INSTRUCTIONS	F2529420
07337	0	76700	0	00022	LXC20	ALS	18			F2529430
07340	-0	32000	0	05142			DECMSK			F2529440
07341	0	60100	0	05201		STO	CILO3			F2529450
07342	ō	50000	0	05133			L(0)			F2529460
07343	ŏ	60100	ŏ	05200		STO	CILO2			F2529470
07344	ŏ	07400	4	04345	LXC30	TSX	CIT+4			F2529480
07245	2	00001	1	07310		TIX	LXC08,1,1		COUNT COMPILED INSTR. IN BLK.	F2529490
01242	-6	53400	4	07336			LXC19+4			F2529500
07247	-0	02000	4	00001		TRA	1.4			F2529510
01241	v	02000	7	00001		• • • • • • • • • • • • • • • • • • • •	*****	***	SYMBOLIC ADDRESS. RELATIVE ADDRESS. TEST CILO2 WORD. FIRST CHARACTER IS ZERO. FIRST CHARACTER ALPHABETIC. FIRST CHARACTER NUMBERIC. PLACE REIGHT HALF OF CILO2 IN CILO3, LEFT HALF IN CILO2. SHIF TYPE INSTRUCTION.	*F2529520
07350	0	00000	0	07406	KLX01		LXI00		****	F2529530
•		00000	0	07407	KLX011		LXI00+1			F2529540
07351					KLX02I		LXI05		· · · · · · · · · · · · · · · · · · ·	F2529550
 07352	Ň	00000	Ň	07412	KLX02		LXI02			F2529560
	Ŏ	00000	ŏ	07410	KL VOZ		LXI16			F2529570
07354	O	00000	0	07424	KLX03		LXI30			F2529580
07355	0	00000	0	07442	KLXUS		LXIIO			F2529590
	0	00000	0	07416	KLX03I		LXIIO			F2529600
07357	0	00000	0	07434	KLX051		A1C00		•	F2529610
07360	0	00000	0	07473	K1AORO		A1C00			F2520420
		00000	0	07474	KIAORO		A1C01			F2529630
07362		00000	0	07477	K2AORO					F2529640
07363					K3AORO		A1001			F2529650
07364					KTX00		TXC00			
07365	0	00000	0	07507			TXC08			F2529660

TL

07344 0 00000	0 0 07515	TXC18			F2529670
	0 0 07531 KTX04	TXC30			F2529680
• • • • • • • • • • • • • • • • • • • •	0 0 07532 KTX05	TXC31			F2529690
	0 0 07534 LTX040	TX040			F2529700
	0 0 07536 LTX042	TX042			F2529710
	0 0 07456 LXCI	XCI			F2529720
	0 0 07466 LXCI6	XCI6	•		F2529730
	0 0 07553 LXCIE	XCIE			F2529740
	0 0 07554 LXCIE1	XCIE+1		•	F2529750
	0 0 07563 LXCIEP	XCIEP			F2529760
	0 0 07564 LXCEIP	XCEIP			F2529770
	0 0 07552 XK	XKI			F2529780
	0 0 07452 K1BORO	L(BIC)			F2529790
	0 0 07540 LX2CI	X2CI			F2529800
• • • • • • • • • • • • • • • • • • • •	0 0 07467 LXCI61	XCI6+1			F2529810
	0 0 07470 LXCI8	XCI8			F2529820
	3 2 34321 LXIOO	14545,2,0R000+13	CLA		F2529830
• • • • • • • • • • • • • • • • • • • •	0 6 26346	11494,6,0R000+26	STO		F2529840
	7 2 34321 LXI02	14545,2,0R000+1	CLA		F2529850
	0 6 26346	11494,6,0R000+26	STO		F2529860
•	7 4 32450 LXI05	13608,4,0R000+1	LDQ	•	F2529870
	7 4 44770	18936,4,0R000+9	MPY.		F2529880
07414 -2 00021		NX 6386.2.17	ALS 17		F2529890
	0 6 26346	11494,6,0R000+26	STO		F2529900
•	2 4 32450 LXIIO	13608,4,0R000+4	LDQ		F2529910
• • • • • • • • • • • • • • • • • • • •	5 4 44770	18936,4,0R000+7	MPY		F2529920
07420 -2 00021		NX 6386+2+17	ALS 17		F2529930
	5 6 26422	11538,6,0R000+7	SUB		F2529940
•	2 12424	5396,2,0R000+26	ADD		F2529950
• •	0 6 26346	11494,6,0R000+26	STO		F2529960
	2 4 32450 LXI16	13608,4,0R000+4	LDQ		F2529970
	0 4 44770	18936,4,0R000+10	MPY		F2529980
07426 -2 00022		NX 14962,4,18	LRS		F2529990
	5 4 44770	18936+4+ORO00+7	MPY	·	F2530000
07430 -2 00021		NX 6386,2,17	ALS	•	F2530010
	5 6 26422	11538,6,0RO00+7	SUB		F2530020
	0 2 12424	5396,2,0R000+26	ADD		F2530030
• ,	0 6 26346	11494.6.0R000-26	STO		F2530040
•,	3 4 32450 LXI24	13608,4,0R000+21	LDQ		F2530050
•	6 4 44770	18936,4,0R000+24	MPY		F2530060
07436 -2 00021		NX 6386,2,17	ALS		F2530070
	6 6 26422	11538,6,0RO00+24	SUB		F2530080
	0 2 12424	5396,2,0R000+26	ADD		F2530090
	0 6 26346	11494,6,0RO00+26	STO		F2530100
	3 4 32450 LXI30	13608,4,0R000+21	LDQ		F2530110
• •	1 4 44770	18936,4,0R000+11	MPY		F2530120
07444 -2 00022		NX 14962,4,18	LRS		F2530130
	6 4 44770	18936,4,0R000+24	MPY		F2530140
07446 -2 00021		NX 6386,2,17	ALS		F2530150
	6 6 26422	11538,6,0R000+24	SUB		F2530160
	0 2 12424	5396 • 2 • OROOO+26	ADD		F2530170
	0 6 26346	11494,6,0RO00+26	STO		F2530180
	1 4 32450 L(BIC)	13608,4,0R000+19	LDQ		F2530190
	6 4 44770	18936,4,ORO00	MPY		F2530200
01+22 0 01200					

											5050000
07454		00021				TNX	6386,2,17	ALS		•	F2530210
07455		07602					11494,6,0R000+12	STO			F2530220
07456	0	07570	2	34321	XCI		14545,2,0R000+2	CLA			F2530230
07457	0	07567	6	26422			11538,6,0R000+1	SUB			F2530240
07460	0	07571	2	12424			5396 • 2 • OROOO+3	ADD			F2530250
		00043				TNX	14962,4,35	LRS			F2530260
07462		07571				•	19815,2,0R000+3	DVP			F2530270
07463		07571					18936,4,0R000+3	MPY			F2530280
	_	00022				TNY	14962,4,18	LRS			F2530290
• • • • •	_					1117	18936,4,0R000+9	MPY			F2530300
07465		07577			wet.	THY	-	LLS			F2530310
				34362	XCIP	INX	14578,4,35				F2530320
07467		07603					11538,6,0R000+13	SUB			
07470	0	07605	6	26324	XCI8		11476,6,0R000+15	STD			F2530330
07471		07602					5396,2,0R000+12	ADD			F2530340
07472	0	07604	6	26324			11476,6,0R000+14	STD			F2530350
07473	0	07566	4	32450	A1C00		13608,4,0R000	LDQ			F2530360
07474	0	07611	4	44770	A1C01		18936,4,0R000+19	MPY			F2530370
	-	00021				TNX	6386,2,17	ALS			F2530380
07476		07604					11476,6,0RO00+14	STD			F2530390
07477				34321	A1000		14545,2,0R000	CLA			F2530400
07500				26324			11476,6,0R000+14	STD			F2530410
07501				34321			14545,2,0R000+2	CLA			F2530420
-	-	07567	_		IXCOO		11538,6,0R000+1	SUB			F2530430
0.7502		07571					5396,2,0R000+3	ADD			F2530440
07503						TNY	14962,4,35	LRS			F2530450
		00043				1117	19815,2,0R000+3	DVP			F2530460
07505	_	07571					18936+4+ORO00+3	MPY			F2530470
07506		07571			= 4 6 6 6		••••				F2530480
07507	_	•		34321	TXCOR		14545,2,0R000+5	CLA			F2530480 F2530490
07510		07572					11538,6,0R000+4	SUB			
07511		07574					5396 +2 +ORO00+6	ADD			F2530500
07512		00043				TNX	14962,4,35	LRS			F2530510
07513	0	07574	2	46547			19815,2,0R000+6	DVP			F2530520
07514	0	07574	4	44770			18936,4,0RO00+6	MPY			F2530530
07515	0	07614	2	34321	TXC18		14545,2,0R000+22	CLA			F2530540
07516	0	07613	6	26422			11538,6,0R000+21	SUB			F2530550
07517		07615					5396,2,ORO00+23	ADD			F2530560
		00043				TNX	14962,4,35	LRS			F2530570
07521		07615					19815,2,0R000+23	DVP			F2530580
07522		07615					18936,4,0R000+23	MPY			F2530590
		00022				TNX	14962,4,18	LRS			F2530600
07524		07575				• • • • • • • • • • • • • • • • • • • •	18936,4,0R000+7	MPY			F2530610
		00022				TNX	14962,4,18	LRS			F2530620
		07576				,,,,,	18936,4,0R000+8	MPY			F2530630
07526						TNY	14962,4,18	LRS			F2530640
		00022				1111	18936,4,0R000+11	MPY			F2530650
07530		07601			TVCOO	TALV	14578,4,35	LLS			F2530660
-				34362		INA	5396,2,0R000+27	ADD			F2530670
07532	_	•		12424	IVCOT		11538,6,0R000+13	SUB			F2530680
07533		07603			TV0:0	TA: V					F2530690
-				35162	1X040	INX	14962,4,18	LRS			F2530700
07535	. 0	07611	4	44770			18936,4,0R000+19	MPY			
07536				34362	TX042	TNX	14578,4,35	LLS			F2530710
07537	-	07604					11476,6,0R000+14	STD	-		F2530720
07540				34321	X2CI		14545,2,0R000+5	CLA			F2530730
07541	0	07572	6	26422			11538,6,0R000+4	SUB	·		F2530740
									• • •		

```
F2530750
                                                            ADD
                                         5396,2,0R000+6
      07542 . 0 07574 2 12424
                                                                                                         F2530760
                                     TNX 14962,4,35
                                                            LRS
      07543 -2 00043 4 35162
                                                                                                         F2530770
                                         19815+2+ORO00+6
                                                            DVP
             0 07574 2 46547
      07544
                                                                                                         F2530780
                                         18936,4,0RO00+6
                                                            MPY
      07545
             0 07574 4 44770
                                                                                                         F2530790
                                                            LRS
      07546 -2 00022 4 35162
                                     TNX 14962,4,18
                                                                                                         F2530800
                                                            MP Y
                                         18936,4,0R000+20
      07547 0 07612 4 44770
                                                                                                         F2530810
                                                            LLS
                                     TNX 14578,4,35
      07550 -2 00043 4 34362
                                                                                                         F2530820
                                         11538,6,0R000+13
                                                            SUB
             0 07603 6 26422
      07551
                                                                                                         F2530830
                                         14545 • 2 • ORO00+20
                                                            CLA
      07552 0 07612 2 34321 XKI
                                                                                                         F2530840
                                     TNX 14578,4,35
                                                            LLS
      07553 -2 00043 4 34362 XCIE
                                                                                                         F2530850
                                                            SUB
                                         11538,6,0RO00+13
      07554
             0 07603 6 26422
                                                                                                         F2530860
                                         11476,6,0RO00+15
      07555
             0 07605 6 26324
                                                                                                         F2530870
                                                            STD
                                         11476,6,0RO00+14
             0 07604 6 26324
                                                                                                         F2530880
                                         11476,6,0R000+15
                                                            STD
             0 07605 6 26324 XCI8P
      07557
                                                                                                         F2530890
                                         5396,2,ORO00+19
             0 07611 2 12424
      07560
                                                                                                         F2530900
                                         11476,6,0RO00+14
      07561
             0 07604 6 26324
                                                                                                         F2530910
             0 00000 0 07557 LXCI8P
                                         XCI8P
                                                                                                         F2530920
                                         14545,2,0R000+20
             0 07612 2 34321 XCIEP
      07563
                                                                                                         F2530930
                                         11476,6,0R000+15 STD
             0 07605 6 26324 XCEIP
      07564
                                         11476,6,0R000+14 STD
             0 07604 6 26324
      07565
                                                                                                         F2530960
                             ORO00 BSS 12
                       07566
                                                                                                         F2530970
                               ORO12 OCT 010000000001
      07602 +0100000000001
M
                                                                                                         F2530980
                                     OCT 06000000003
      07603 +0600000000003
                       07604 ORO14 BSS 12
                                                            1)+3 SYMBOL.
                               ORO26 OCT 010000000003
      07620 .+010000000003
M
                                                                                                         F2531020
                                                                                                         F2531040
                                         SYNONYMS
                                                                                                         F2531050
                       01242 ZEKSUM SYN TGTG+100
                                                                                                         F2531060
                       03650 TAG21 SYN TAG2+1
                                                                                                         F2531070
                       03651 TAG22 SYN TAG2+2
                                                                                                         F2531080
                       05256 RTXAC SYN RTX
                                                                                                         F2531090
                       05256 RTXAC SYN AC
                                                                                                         F2531100
                       05245 ERAORO SYN ERTX01
                                                                                                         F2531110
                       05241 CPYWD1 SYN ER40
                                                                                                         F2531120
                       05242 CPYWD2 SYN ER41
                                                                                                         F2531130
                       05243 ERDRM1 SYN ARG
                                                                                                         F2531140
                       05243 ERDRM1 SYN ARG
                       05246 ERDRM SYN ERTX02
                                                                                                         F2531160
                       05202 ERAB
                                     SYN ERTGA
                                                                                                         F2531170
                       03636 ADTGA SYN OADTGA+100
                                                                                                         F2531180
                       03466 ADTGMX SYN ADTG+400
                                                                                                         F2531190
                       01076 DOTAGZ SYN DOTAG+450
                                                                                                         F2531200
                       07602 OR012 SYN OR000+12
                                                                                                        F2531210
                       07603 OR013
                                     SYN ORO00+13
                                                                                                         F2531220
                                     SYN ORO00+18
                       07610 ORO18
                                                                                                         F2531230
                       07620 ORO26 SYN ORO00+26
                                                                                                         F2531240
                       02336 MXTGTG SYN TGTG+672
                                                                                                        F2531250
                       02646 MXTGA SYN OMXTGA+200
                                                                                                        F2531260
                        00004 DIAG EQU 4
                                                                                                         F2531270
                                     END
                        00000
                              OORO12 07602,07602
```

OORO26 07620.07620 ORTXAC 05256.05256 OTAG21 03650.03650 OTAG22 03651.03651 ERDRM1 05243.05243

REM BLOCK SIX OF SECTION TWO. master record card = FN053 DOFILE INVERSION ROUTINE--BLOCK 6 24 ORIGIN FOR DFI INSTRUCTIONS. 148 REWIND OUTPUT TAPE 4 147 AND INPUT TAPE 3 148 SPACE ERAS OVER DF102 BLOCK SIX OF SECTION TWO. F2600010 F2600020 00071 0 02000 0 00074 FLASE END OF FILE. F2600380 FALSE END OF RECORD. F2600390 F2600400 2ND WORD ZERO MEANS END OF NEST F2600410 2ND WORD ALL ONES F2600420 MEANS BEGINNING OF BLOCK F2600430 WAS PREVIOUS FOUR WORDS BEG OF BLOCK F2600440 00100 -0 76000 0 00143 MSE 99 WAS PREVIOUS FOUR WORDS BEG OF BLOCK F2600440 00101 0 02000 0 00104 TRA DFI17 NO; LEAVE FIRST WORD PLUS F2600450 00103 -0 60200 1 00200 ORS NOR;1 F1RST WORD MINUS F2600470 00104 1 77774 1 00105 DFI17 TXI DFI18*1;-4 INDEX BY 4 FOR NEXT 4 WORDS F2600480 00105 3 70300 1 00054 DFI18 TXH DFI12*1;-3904 TEST AND CONTINUE NEXT 4 WORDS F2600490 00106 0 07400 4 00004 TSX DIAG;4 NOR BUFFER SIZE EXCEEDED. F2600500 00110 0 02000 0 00054 TRA DFI12 CONTINUE NEXT FOUR WORDS F2600520

										50400500
	 00111	0	76600	0	00333	DFI20	WRS	219	DELAY UNTIL TAPE DISCONNECTS	F2600530 F2600540
	00112	-0	76000	0	00012		RTT	DFI21 DFI10 DFI22,2,1 DIAG,4 147	DELAY UNTIL TAPE DISCONNECTS TEST TAPE CHECK FROOR	F2600540
	00113	0	02000	0	00115		TRA	DFI21	ERROR IF NO ERROR RETRN TO READ NEXT RECORD REDUCE ERROR COUNTER BY 1 TAPE CHECK. TRIED 5 TIMES. RESTORE TAPE POSITION AND INDEX 1 FOR ANOTHER TRY CHECK THAT END OF RECORD HAS BEEN REACHEDEND OF NEST. RECORD IS ONLY FOUR WORDS. DELAY UNTIL TAPE DISCONNECTSP TEST TAPE CHECK ERROR PROCEED TO PROCESS THIS NEST REDUCE ERROR COUNT BY 1 AND RETRY TAPE CHECK. TRIED 5 TIMES. STORE INDEX FOR END OF BLOCK TEST SCAN UP EVERY FOURTH WORD TO TEST FOR MINUS SAVE FOR NEXT END OF BLOCK TEST RESTORE PLUS SIGN TO FIRST WORD OF BLOCK SELECT OUTPUT TAPE PREPARE FOR NEXT 100 WORDS WRITE BLOCK IN FORWARD DIRECTION UNTIL END OF BLOCK IF WORDS IN RECORD START ANOTHER RECORD IF INDEX 1 HAS NOT REACHED O PROCESS NEXT BLOCK RETURN TO PROCESS NEXT NEST SKIP OVER DIAGNOSTIC RECORD ON SYSTEM ERAS STORAGE FOR DFI	F2600550
	00114	0	02000	0	00051		TRA	DFI10	IF NO ERROR RETRN TO READ NEXT RECORD	F2400500
	00115	2	00001	2	00117	DF121	TIX	DF122,2,1	REDUCE ERROR COUNTER BY 1	F2600570
	00116	0	07400	4	00004		TSX	DIAG•4	TAPE CHECK. TRIED 5 TIMES.	F2600580
	00117	0	76400	0	00223	DF122	BST	147	RESTORE TAPE POSITION	F2600590
	00120	-0	53400	1	00163		LXD	ERAS,1	AND INDEX 1	F2600600
	00121	. 0	02000	0	00053		TRA	DFI11	FOR ANOTHER TRY	F2600610
	00122	0	70000	0	00163	DF130	CPY	ERAS	CHECK THAT END OF RECORD	F2600620
	00123	0	07400	4	00004		TSX	DIAG•4	HAS BEEN REACHEDEND OF NEST.	F2600630
	00124	Õ	07400	4	00004		TSX	DIAG • 4	RECORD IS ONLY FOUR WORDS.	F2600640
	00125	Õ	76600	0	00333		WRS	219	DELAY UNTIL TAPE DISCONNECTSP	F2600650
	00126	-0	76000	ō	00012		RTT		TEST TAPE CHECK	F2600660
:	 00127	ŏ	02000	Ô	00131		TRA	DFI40	ERROR	F2600670
	00127	ŏ	02000	ō	00133		TRA	DF150	PROCEED TO PROCESS THIS NEST	F2600680
	00130	. 5	00001	2	00117	DF I 40	TIX	DF122•2•1	REDUCE ERROR COUNT BY 1 AND RETRY	F2600690
	00131	ñ	07400	4	00004		TSX	DIAG • 4	TAPE CHECK. TRIED 5 TIMES.	F2600700
	00132	-0	63400	1	00146	DF 150	SXD	DF155•1	STORE INDEX FOR END OF BLOCK TEST	F2600710
	00133	1	000004	î	00135	DF 151	TXI	DF152•1•4		F2600720
	00134	Ť	50000	i	00100	DF 152	CLA	NOR • 1	SCAN UP EVERY FOURTH WORD	F2600730
	00133	ň	12000	ň	00134	0	TPI	DEI51	TO TEST FOR MINUS	F2600740
	00130	-0	42400	1	00154		SXD	FRAS-1	SAVE FOR NEXT END OF BLOCK TEST	F2600750
	00121	-0	50200	•	00103		CLS	NOR • 1	RESTORE PLUS SIGN TO	F2600760
	 00140	0	40100	1	00200		STO	NOR • 1	FIRST WORD OF BLOCK	F2600770
	00141	ŭ	80100	•	00200	DE 153	WPS	148	SELECT OUTPUT TAPE	F2600780
	00142	Ň	10000	2	00224	01177	EYA	1 (100) 42	PREPARE FOR NEXT 100 WORDS	F2600790
	00143	Ŏ	73400	2	00102	05154	CDV	NOP - 1	WRITE BLOCK IN	F2600800
	00144	Ų	70000	ï	00200	DF 1 54	TVI	NOR71	FORWARD DIRECTION	F2600810
_	00145		11111	1	00140	05155	TVI	DE160-1	UNTIL END OF BLOCK	F2600820
D	00146	-3	00000	ī	00121	DF 133	TIV	DE164-2-1	IF WORDS IN RECORD	F2600830
	00147	2	00001	2	00144		TDA	DE153	START ANOTHER RECORD	F2600840
	00150	Ü	02000	v	00142	DE 140	IVA	EDAC-1	IF INDEX 1 HAS NOT REACHED O	F2600850
	00151	-0	53400	ī	00103	DF 160	TYLL	DETEC-1-0	DDUCES NEXT BLUCK	F2600860
	00152	3	00000	1	00133		TDA	DF1309190	PETUDA TO PROCESS NEXT NEST	F2600870
	00153	0	02000	0	00044		IKA	DETUS	CALD UNED DISCHOCATIC DECORD ON CACLEN	TAPE-F2600880
	00154	0.	76200	0	00221	EXII	RDS	145	SKIP OVER DIAGNOSTIC RECORD ON STSTEM	7A7 E57 200000
	 00155	0	02000	0	00004		IKA	4	FOAC CTORACE FOR DET	E2600000
								CONSTANTS AND	ERAS STORAGE FOR DF1	F2600900
	00156	0	00000	0	00000	L(0)		0		F2600910
	00157	0	00000	0	00005	L(5)		5		F2600920
	00160	+37	777777	77	77 7	ALLONE	OCT	377777777777		F2600930
	 00161	-0	00000	0	00000	L(MO)	MZE	0		F2600340
	00162	0	00000	0	00144	L(100)		100		F2600930
					00163	ERA5	BSS	1	ERAS STORAGE FOR DFI ORIGIN FOR NOR	F260070
,					00200		ORG	128	ORIGIN FOR NOR	F2600910
					00200	NOR	BSS	3904		F2600000
	,				00004	DIAG	EQU	4		F2601970
A					00000		END			L5001000

		# 1	- · · ·	· · · · · · · · · · · · · · · · · · ·	
1 ·	ORG 3641	000			
1	0/0/1	ORG	3641	CARD - ENGES	
	and the second second second		POLITIME TO MANDE	LE ADDITIONAL CHROCHTINES IE DESIDED	E201210A
		T11	/ W13505-4-1	COMPANE MAD FOR PRESENT SUPPOSITIONS	L2815100
	07071 2 00001 4 01306	11/	N 1 40 1 - 6	COMPARE MID FOR PRESENT SUBROUTINES	L3815130
	07072 -0 53400 4 02170	OD1 CAL	, L(0) 94	COMPARE ADD 119 OPEN SOBS9 IN MIDZ	F3B12200
	07073 0 34000 4 07122	OP1 CAS	002-61	WITH CURRENT NAME.	F3B12210
	07074 1 77777 4 07077	1 7 1	002949-1	NOT FOUND GET NEXT MIDZ ENTRY	F3B12220
	07075 0 02000 0 07101	TVI	003	NOT COUNT OF NEVT MIDE ENTRY	F381223U
	07076 1 77777 4 07077	ODO TVI	OP2949-1	TEST FOR END OF MADE	F3B12240
	07077 3 77776 4 07073	0P2 1AF	1 OP1949MIUZL	CURRENT CUR NOT IN MADO	F3B12250
	07100 0 07400 4 00004	10/	\ 494 \ CCELL-6	CORRENT SUB NOT IN MIDZ	F3812260
	07101 -0 63400 4 02312	0P3 5XL	ODDAY 3 - 3	SAVE INC. FOR LATER BRANCH OF SAME INSTA	F3B12270
	07102 1 77776 1 07103	TC	UP3+2919-2	THE FOR THE OF CUE COMPANY REC	F3B12280
	07103 0 07400 4 07136	157	165194	TEST FOR END OF CUR. COMPAIL REC.	F3B12290
	07104 -0 53400 4 02312	LXL	CCELL94	GO TO THE COMPILER FOR PART. SUBROUTINE	F3B12300
	07105 0 02000 4 07106	0P4 TRA	VP4+1,4	COMPAIL INSTRUCTION	F3B12310
	07106 0 02000 0 07170	TRA	XDIM	OPEN SUB IS ADIM	F3B12320
	07107 0 02000 0 07171	1 1 7 7	DIM	SPACE FOR SPANSITUS TO 10 ASSITIONAL	F3B12330
· A	07110 0 00000 0 00000	H 1 P		SPACE FOR BRANCHING TO 10 ADDITIONAL	F3B12340
A	07111 0 00000 0 00000	H 17		TO ADDITIONAL OPEN CURS MUST BE OPPER	F3B12350
A	07112 0 00000 0 00000	, MIR UTD		ED IN THE CAME MAY AS THE ADDITIONAL OPEN	F3B12360
A	07113 0 00000 0 00000	HIR UTC		EU IN THE SAME WAY AS THE AUDITIONAL OPEN	F3612370
A	07114 0 00000 0 00000	OP4 TRA TRA TRA HTRA HTRA HTRA HTRA HTRA HTR		CARD = FN055 LE ADDITIONAL SUBROUTINES IF DESIRED COMPARE M1D FOR PRESENT SUBROUTINES COMPARE ADD IT, OPEN SUBS, IN M1D2 WITH CURRENT NAME. NOT FOUND, GET NEXT M1D2 ENTRY FOUND NOT FOUND, GET NEXT M1D2 ENTRY. TEST FOR END OF M1D2. CURRENT SUB NOT IN M1D2 SAVE 1RC FOR LATER BRANCH OF SAME INST. INDEX TO GET NEXT 4 WORD INSTR. TEST FOR END OF CUR. COMPAIL REC. GO TO THE COMPILER FOR PART. SUBROUTINE COMPAIL INSTRUCTION OPEN SUB IS XDIM OPEN SUB IS DIM SPACE FOR BRANCHING TO 10 ADDITIONAL OPEN SUBROUTINES THE LIST OF TRANSFERS TO ADDITIONAL OPEN SUBS MUST BE ORDER— ED IN THE SAME WAY AS THE ADDITIONAL OPEN SUB NAMES ARE ORDERED IN THE DICTION— ARY M1D2.	F3812380
A	07115 0 00000 0 00000	#1 P		ART MID2.	F3812390
A	07116 0 00000 0 00000	7117			F3812400
A.		HIN			F3B12410
A	07120 0 00000 0 00000	HIN			F3B12420
A	07121 0 00000 0 00000	нтя	THE DISTIDUADY ES	OD ADDITIONAL ODEN CURROLITINES AND	F3812430
			CONCTANTS USED IN	ADDITIONAL OPEN SUBROUTINES, AND	F3B12440
		W102 DC0	CONSTANTS USED IN	OR ADDITIONAL OPEN SUBROUTINES, AND N THE DISCRIMINATION PROCEDURE, OPEN SUB XDIM OPEN SUB DIM	F3B12450
	07122 672431446060	MIDS BCD	INDIM	OPEN CUB DIM	F3B12460
	07123 243144606060	BCD	IDIM	OPEN SUB XDIM OPEN SUB DIM SPACE FOR ADDING 10 ADDITIONAL OPEN SUBS.	F3B124/0
Α .	07124 0 00000 0 00000	HIN		SPACE FOR ADDING TO ADDITIONAL OPEN SUBS.	F3B12480
A	07125 0 00000 0 00000	HIN		•	
A	07126 0 00000 0 00000	nin	•		F3B12500
A	07127 0 00000 0 00000	1170	•		F3B12510
A	07123 243144508060 07124 0 00000 0 00000 07125 0 00000 0 00000 07126 0 00000 0 00000 07127 0 00000 0 00000 07130 0 00000 0 00000 07131 0 00000 0 00000 07132 0 00000 0 00000 07133 0 00000 0 00000	MIN	F		F3B12520
Ā	07131 0 00000 0 00000	nin			F3B12530
A	07132 0 00000 0 00000	חות			F3B12540
Α .	07133 0 00000 0 00000	HTR			F3012550
A	07134 0 00000 0 00000				F3B12560
A	07135 0 00000 0 00000	HTR	FOUR SUPPOSITINES	HEED IN CONDITING OPEN CURROUTINGS	F3B12570
			1 TEST	OSED IN COMPILING OPEN SUBROUTINES	F3B12580
	-710/ 0 /0/00 / 07000	TECT CVD	101E31	SAVE I THEAGE	L 3013400
	07136 -0 63400 4 07230	1531 340	0-1	COMPARE CURRENT VALUE OF IRE MITTH	L3815000
	07137 -0 75400 1 00000		MIAIWN	25 COMPL. OF MODE COUNT	L 3015010
	07140 0 34000 0 02305	CAS	1.4	23 COMPLO OF WORD COUNTS	L3B17050
	0/141 0 02000 4 00001	IKA	M10210-/	TIPPENT DECORD EVENIETED	F3B12630
	07142 0 07400 4 00341	1,5%	M1021094 C	CTOD NO OF HOS IN CHE DEC EXCERT	F3B12640
	07143 0 07400 4 00004	TSX	494	USED IN COMPILING OPEN SUBROUTINES SAVE LINKAGE COMPARE CURRENT VALUE OF IR1 WITH 2S COMPL. OF WORD COUNT. CURRENT RECORD EXHAUSTED STOP. NO OF WDS. IN CUR REC EXCEEDS WD. COUNT RESTORE LINKAGE RETURN	F3B12650
			C - A	DESTADE LINKACE	F3812660
	07144 -0 53400 4 07230	LXD	1.4	RESIURE LINKAGE	F3812670
	07145 0 02000 4 00001	IRA	194	KETUKN	L3815980

						 .	2 TEARG1. ROUTINE	TO DET. IF TOO FEW ARGS SPECIFIED	F3B12690
					TEARG1	CLA	AIL+1	TEST FOR ALL ONES IN 1ST WD OF CUR. INSTR	F3812710
07147						SUB	ALLONE	ALL ONES CO TO PROPER STOP	F3B12720
07150						125	ALLONE ERROR1 1,4	ALL ONES. GO TO PROPER STOP NOT ALL ONES. RETURN	F3812730
07151	0	02000	4	00001		IKA	A TEADCA DOUTINE	TO DET. IE TOO MANY APGS. SPECIFIED	F3B12740
	_				*54060	c	3 TEARGE ROUTINE	TO DET. IF TOO MANY ARGS. SPECIFIED TEST FOR ALL ONES IN TST WORD OF PLACE SUMB ADDRESS OF CURRENT ARG IN M1CW+2 PLACE RELATIVE ADD. AND TAG OF CUR- RENT ARG. IN M1CW+3 TEST FOR TAG NO TAG. RETURN ARG TAGGED. SAVE LINKAGE TEST FOR END OF CHTAG TABLE CHTAG TABLE NOT EXHAUSTED. END OF CHTAG TABLE. RESTORE IN- DICATOR AND LINKAGE RETURN OMPILING THE OPEN SUBROUTINES DIMAND XDIM TURN ON SENSE LIGHT 100 FOR XDIM	F3B12750
07152	0	50000	1	02327	I EARGZ	TDA	CHERAT	TEST FOR ALL ONES IN 151 WORD OF	F3B12760
07153	Ü	02000	Ü	01235	ADCTAC	CLA	ATLAZAT	DI ACE SUMB ADDRESS OF CURRENT ARG	F3B12770
07154	Ō	50000	Ţ	02331	AKGTAG	CLA	MICHT291	IN MICHTS	F3B12780
07155	0	60100	ņ	02324		310	M1CWT2	PLACE RELATIVE ADD. AND TAG OF CUR-	F3B12790
07156	0	50000	ī	02332		STO	MICHTS I	DENT ARG. IN MICW+3	F3B12800
0/15/	Ü	90100	v	02323		ANIA	TGMSK	TEST FOR TAG	F3B12810
07160	-ŏ	32000	Ü	02201		TZE	1.4	NO TAGA RETURN	F3B12B20
0/161		10000	4	077220		SXD	C.4	ARG TAGGED. SAVE LINKAGE	F3B12830
07162	-0	7400	4	01230		MSF	00	TEST FOR END OF CHTAG TABLE	F3B12840
07103	<u>-</u> ŏ	07400	0	01016		TSX	M1250044	CHTAG TABLE NOT EXHAUSTED.	F3B12850
07165	0	76000	^	01010		PSF	99	END OF CHTAG TABLE. RESTORE IN-	F3B12860
07165	_^	53400	,	07230		IXD	C.4	DICATOR AND LINKAGE	F3B12870
07167	-0	02000	4	00001		TRA	1.4	RETURN	F3B12880
01101	. •	02000	4	00001		IIIA	THE ROUTINE FOR CO	OMPILING THE OPEN SUBROUTINES DIMAND XDIM	F3B12890
07170	0	74000	^	00144	XDIM	PSF	100	TURN ON SENSE LIGHT 100 FOR XDIM	F3B12900
07170	ň	07400	4	07146	DIM	TSX	TFARG1.4	TEST NO. OF ARGS SPECIFIED	F3B12910
07172	ŏ	07400	4	07154	J.,,	TSX	ARGTAG • 4	TEST WHETHER FIRST ARG. IS TAGGED	F3B12920
07173		77774				TXI	01•1•-4	INDEX COMPAIL RECORD TO BEG. OF NEXT REC.	F3B12930
07174		07400			01	TSX	TEST • 4	TEST FOR END OF CURRENT AIL RECORD	F3B12940
07175					• •	TSX	TEARG2 • 4	TEST NO. OF ARGS. SPECIFIED	F3B12950
07176						TSX	CI T00 • 4	COMPILE FIRST INST. FOR DIM AND XDIM	F3B12960
07177						HTR	M1CW	LOCATION (1ST WD)	F3B12970
07200	ñ	00000	o	02215		HTR	L(CLA)	CLA(2ND WD.)	F3B12980
07201		00000				HTR	M1CW+2	FIRST ARG (3RD WD)	F3B12990
		00000				HTR	M1CW+3	REL. ADD END TAG OF 1ST ARG (4TH WD)	F3B13000
07203						TSX	ARGTAG +4	TEST WHETHER 2ND. ARG TAGGED ETC.	F3B13010
07204						CAL	L(SUB)	PREPARE OP. WD (2ND WD) OF 2ND AIL	F3B13020
07205						MSE	100	ENTRY. OP. IS SUB. FOR XDIM	F3B13030
07206	-0	50000	0	07232		CAL	L(FSB)	FSB FOR DIM	F3B13040
07207						SLW	M1CW+1		F3B13050
07210						TSX	CI T00 • 4	COMPILE 2ND INST FOR DIM OR XDIM	F3B13060
07211		00000				HTR	L(0)	0 (1ST WD)	F3813070
07212	0	00000	0	02323		HTR	M1CW+1	SUB(XDIM), FSB(DIM) (2ND. WD)	F3813080
07213	0	00000	0	02324		HTR	M1CW+2	2ND. ARG (3RD WD)	L38130A0
07214	0	00000	0	02325		HTR	M1CW+3	REL ADD AND TAG OF 2ND ARG (4TH WD)	L 2813100
07215	0	07400	4	00707		TSX	CIT00,4	RETURN OMPILING THE OPEN SUBROUTINES DIMAND XDIM TURN ON SENSE LIGHT 100 FOR XDIM TEST NO. OF ARGS SPECIFIED TEST WHETHER FIRST ARG. IS TAGGED INDEX COMPAIL RECORD TO BEG. OF NEXT REC. TEST FOR END OF CURRENT AIL RECORD TEST NO. OF ARGS. SPECIFIED COMPILE FIRST INST. FOR DIM AND XDIM LOCATION (1ST WD) CLA(2ND WD.) FIRST ARG (3RD WD) REL. ADD END TAG OF 1ST ARG (4TH WD) TEST WHETHER 2ND. ARG TAGGED ETC. PREPARE OP. WD (2ND WD) OF 2ND AIL ENTRY. OP. IS SUB. FOR XDIM FSB FOR DIM COMPILE 2ND INST FOR DIM OR XDIM O (1ST WD) SUB(XDIM), FSB(DIM) (2ND. WD) 2ND. ARG (3RD WD) REL. ADD AND TAG OF 2ND ARG (4TH WD) COMPILE 3RD INST FOR DIM AND XDIM O(1ST WD) TPL(2ND WD) O(1ST WD) O(1ST WD) O(1ST WD) O(1ST WD) O(1STWD) PXD (2ND WD) O (3RD WD) O (3RD WD) O (3RD WD) O (1STWD) PXD (2ND WD) O (4TH WD) INDEX CUR AIL RECORD TO BEGINNING OF NEXT 4WD INST AND RETURN TO MAIN PROG	F3B13110
 07216	0	00000	0	02170		HTR	L(0)	O(1ST WD)	F3813120
07217	0	00000	0	07233		HTR	L(TPL)	TPL(2ND WD)	L 3813130
07220	0	00000	0 .	0.2245		HTR	L(017)	OCT 1/ IN BITS 5-5	F3B13140
07221	0	00000	0	02177		HTR	L(2D)	RELA ADD 29 TAG 0 (41H WD)	L 28 1 2 1 2 0
07222		07400				TSX	CIT00,4	COMPILE LAST INST FOR DIM AND XDIM	L 3013190
07223	. 0	00000	0	02170		HTR	L(0)	0 (15)WU)	E3013110
07224	0	00000	0	07234		HTR	L(PXD)	A (SEE HE)	E3813100
07225		00000				HTR	L(0)	U (OKU WU)	E3813300
07226		00000				HIK	L(U)	TAIDEY CUP ATT DECORD TO REGINATED	F3B12210
07227	1	77774	1	00774		1 7 1	KESUME 119 TH	OF NEXT 4WD INST AND RETURN TO MAIN PROG	F3B12220
								OF BENT AND THOU WELCHE TO MATH LEGG	

				CONSTANTS AND ERASIBLE STORAGE FOR FOUR SUBROUTINES USED IN COMPILING OPEN SUBROUTINES	F3B13230 F3B13240
A	07230	0 00000 0 00000	C HTR	*	F3B13250
^ .	01230	77776	M1D2L EQU		F3B13260
		******		M1D2. THIS CARD MUST BE CHANGED WHEN	F3B13270
				ADDITIONS TO MID2 ARE MADE	F3B13280
		02170	L(0) - SYN		F3B13290
			M13505 SYN		F3B13291
				1226	F3B13292
			MIALWN SYN		F3B13293
			M10210 SYN		F3B13294
		02327		1239	F3B13295
			ALLONE SYN		F3B13300
			ERROR1 SYN		F3B13301
			ERROR2 SYN		F3B13302
		02322		1234	F3B13303
				1159	F3B13304
			M12500 SYN		F3B13305
		01010	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	CONSTANS USED IN COMPILING THE OPEN SUBRINS. XDIM AND DIM	F3B13310
		00707	CITOO SYN	455	F3B13320
			LICLAL SYN		F3B13330
	07231	626422000000	L(SUB) BCD		F3B13340
	07232	266222000000	L(FSB) BCD		F3B13350
	07233	634743000000	L(TPL) BCD		F3B13360
	07234	476724000000	L(PXD) BCD		F3B13370
	U 12 J4		L(017) SYN		F3B13380
		02177		1151	F3B13390
		00774	RESUME SYN		F3B13400
	07235	0 40200 0 02211	SUBPAT SUB	ALLONE	F3B13401
	07236	0 10000 4 00001		1,4	F3B13402
	07237	0 02000 0 02163		ERROR2	F3B13403
A	07240	0 00000 0 00000	ROOM HTR	SPACE FROM ROOM MAY BE USED FOR ADD. OPEN SUB. COMPILATION	F3B13414
. •	01270	07071		3641	

00100 0 70000 0 05737	M10055 CPY	ERAS	TAPE 4 TO GET TO FIRST RECORD	F3B00530
00101 0 02000 0 00100	TRA	M10055	OF COMPDO FILE.	F3800540
00102 0 02000 0 00104	TRA	M10060	END OF TRALEY FILE	F3000330
00103 0 02000 0 00077	TRA	M10055-1	SPACE OVER NEXT TRALEV RECORD.	F3800360
00104 0 53400 2 02170	M10060 LXA	M1CON•2	LOAD O INTO IRB.	F3000570
00105 1 00021 2 00106	IXT	M10060+2,2,17		F3800380
00106 0 76400 0 00222	BST	146	BACKSPACE BINARY TAPE 2 BY	F3800390
00107 2 00001 2 00106	TIX	M10060+2,2,1	13 RECORDS TO POSITION TAPE 2	F3800600
00110 0 53400 1 02164	LXA	M1ECTR • 1	TO READ COMPAIL RECORD COUNT FILE.	F3800610
00111 0 76200 0 00222	M10063 RDS	146		F3B00620
00112 0 70000 0 05737	CPY	ERAS		F3800630
00113 0 07400 2 00064	TSX	M10043 • 2		F3000640
00114 0 76100 0 00111	NOP	M10063	BACKSPACE TAPE 2 OVER COMPAIL	F3000630
00115 0 53400 2 05737	LXA	ERAS•2	RECORD COUNTS A EUF MARKS AND	F300060
00116 1 00002 2 00117	IXI	M10070+2+2	OVER COMPAIL RECORDS	F3000610
00117 0 76400 0 00222	M10070 BST	146	TO POSITION TAPE 2 TO FIRST	F3800680
00120 2 00001 2 00117	TIX	M10070,2,1	RECORD OF COMPAIL FILE.	F3B00030
00121 -0 76000 0 00141	MSE	97	TURN-OFF SENSE LIGHTS 1939 AND 40	F3000700
00122 0 76100 0 00000	NOP		SENSE LIGHT 2 USED BY SEC. 2	F3000710
00123 -0 76000 0 00143	MSE	99	TO INDICATE TO SEC. 3 THERE	F3000120
00124 0 76100 0 00000	NOP		ARE NO COMPOU INSTRIF	F3800740
00125 -0 76000 0 00144	MSE	100	LIGHT 2 IS ON.	F3B00740
00126 0 76100 0 00000	NOP			F3800750
		CHANGE TAG TABLE	L LUII	F3800770
00127 0 53400 4 02164	PECOO LXA	MIECIR 94	LUAD 5 INIU IKC DK KU EKKOK CIKO	F3800780
00130 0 76200 0 00303	PECOI RDS	195	ONEDITED CHIE TABLE ON LOG DR 30	F3B00790
00131 0 46000 0 02170	LDA	MICON	TABLE A FACTUL TO FRAC	F3B00800
00132 0 70000 0 05737	CPY	ERAS	CHECK SIM INTO EDASA	F3800810
00133 0 70000 0 05740	CPY	ERAS+1	CHECK DOWN DEAD	F3B00820
00134 -0 50000 0 05737	CAL	ERAS	TECT TE TABLE LENGTH DEAD	F3800830
00135 0 40200 0 05740	SUB	ERAS+1	CORRECTLY EROM DRIM 3.	F3B00840
00136 0 10000 0 00141	125	PEC02	DEAD ODIM 5 TIMES IF LENGTH WOONG.	F3B00850
00137 2 00001 4 00130	TEX	PECU19491	DOUM DEAD & TIMES UNSUCCESSFULLY	F3800860
00140 0 07400 4 00004	154	494 M15CTD - A	LOAD 5 INTO IPC DR PD FRROR CTR.	F3B00870
00141 0 53400 4 02164	PECOZ LAA	FDAC FDAC	TEST IS THERE ARE ANY ENTRIES	F3B00880
00142 0 50000 0 05/3/	PECUS CLA	DEC20	IN CUC TAG TARIF.	F3800890
00143 0 10000 0 00235	125	0.3	HINEDITED TARLE LENGTH TO TRA. TRB	F3B00900
00144 0 73400 3 00000	CHR	DECOS	COMPUTE CORE ADDRESS INTO WHICH	F3B00910
00145 0 40200 0 00154	STA	DECOA	CHG TAG TARIF ENTRIES TO BE	F3B00920
00146 0 62100 0 00151	314	105	READ PLUS TABLE LENGTH FOR TIX OPER.	F3B00930
00147 0 76200 0 00303	1.04	M1CON+2	DRIM READ ADDRESS OF 2.	F3B00940
00150 0 46000 0 02172	DECO/ CDY	MICONT2	PEAD CHG TAG TARIF INTO UCHTG BLOCK	F3B00950
00151 0 70000 1 00000	PECU4 CFT	DEC04-1-1	KERD CHO THOU THIS SELLE SECTION	F3B00960
00152 2 00001 1 00151	117	MICON 1	LOAD O INTO IRA.	F3B00970
00155 0 55400 1 02170	DECOS CAL	UCHTG 1	UNEDITED CHG TAG TABLE ENTRIES CONSIST	F3B00980
00155 0 36100 1 05366	ACI	UCHTG+1-1	OF 3 WORDS. TEST LOG SUM OF	F3B00990
00155 0 50100 1 05264	SHR	UCHTG+2.1	2 WORDS EQUALS DRUM CHECK	F3B01000
00155 0 40200 1 05265	77F	PFC06	SUM FOR THE ENTRY.	F3B01010
00157 0 10000 0 00162	711	PEC03.4.1	DRUM READ ERROR. TRY 5 TIMES.	F3B01020
00161 0 07600 6 00006	117	4.4	DRUM READ 5 TIMES UNSUCCESSFULLY.	F3B01030
00161 0 07400 4 00004	PECOA TYI	PEC07.13	TAPE 4 TO GET TO FIRST RECORD OF COMPDO FILE. END OF TRALEY FILE. SPACE OVER NEXT TRALEV RECORD. LOAD O INTO IRB. BACKSPACE BINARY TAPE 2 BY 13 RECORDS TO POSITION TAPE 2 TO READ COMPAIL RECORD COUNT FILE. BACKSPACE TAPE 2 OVER COMPAIL RECORD COUNT, A EOF MARK, AND OVER COMPAIL RECORDS TO POSITION TAPE 2 TO FIRST RECORD OF COMPAIL FILE. TURN-OFF SENSE LIGHTS 1,3, AND 4. SENSE LIGHT 2 USED BY SEC. 2 TO INDICATE TO SEC. 3 THERE ARE NO COMPOD INSTR IF LIGHT 2 IS ON. E EDIT LOAD 5 INTO IRC DR RD ERROR CTR. UNEDITED CHTG TABLE ON LOG DR 3. O=DR ORG UCHTG - 2 TABLE LENGTH TO ERAS CHECK SUM INTO ERAS+1. CHECK DRUM READ TEST IF TABLE LENGTH READ CORRECTLY FROM DRUM 3. READ DRUM 5 TIMES IF LENGTH WRONG. DRUM READ 5 TIMES UNSUCCESSFULLY. LOAD 5 INTO IRC DR RD ERROR CTR. TEST IF THERE ARE ANY ENTRIES IN CHG TAG TABLE. UNEDITED TABLE LENGTH TO IRA. IRB COMPUTE CORE ADDRESS INTO WHICH CHG TAG TABLE ENTRIES TO BE READ PLUS TABLE LENGTH FOR TIX OPER. DRUM READ ADDRESS OF 2. READ CHG TAG TABLE INTO UCHTG BLOCK LOAD 0 INTO IRA. UNEDITED CHG TAG TABLE ENTRIES CONSIST OF 3 WORDS. TEST LOG SUM OF 2 WORDS EQUALS DRUM CHECK SUM FOR THE ENTRY. DRUM READ 5 TIMES UNSUCCESSFULLY. MODIFY TABLE ADDR FOR NEXT 3 WORDS. TEST FOR END CHG TAG BLOCK CHTG	F3B01040
00105 1 11113 1 00103	PECOT TIY	PEC05+2+3	TEST FOR END CHG TAG BLOCK	F3B01050
00105 2 00005 2 00154	12001 117	REGIN EDIT OF U	CHTG	F3B01060

	00164	0	53400	3	02170	PEC10	LXA	M1CON+3	LOAD O INTO IRA: IRB	F3B01070
	00165	ŏ	50000	õ	05740		CLA	ERAS+1	PUT UCHTG TABLE LENGTH IN ADDRESS AND	F3B01080
	00166	-0	50100	ō	02326		ORA	FORTAG-1	FORTAG TABLE LENGTH IN DECREMENT	F3B01090
	00167	ŏ	76000	õ	00006		COM	0	PORTIONS OF ACCUM.	F3B01100
	00170	ŏ	40000	õ	02212		ADD	M1CON+18	OBTAIN 25 COMP OF FORTAG	F3B01110
	00170	ñ	62200	ň	00213		STD	PEC16	LENGTH AND UCHTG LENGTH AND	F3B01120
	00171	ň	76700	ñ	00022		ALS	18	STORE IN DEC OF TEST INST.	F3B01130
	00172	ŏ	62200	ŏ	00022		SID	PEC14		F3B01140
	00175	~	50000	ĭ	02227	DEC11	CLA	FORTAG•1	SUCCESSIVE DUPLICATES IN	F3B01150
	00174	Č	34000	•	02321	I CCII	CAS	FORTAG+1+1	FORTAG TABLE NOT COMPARED TO	F3801160
	00175	ŏ	02000	å	00200		TRA	PFC12	UCHTG TABLE ENTRIES.	F3B01170
	00176	•	77777	•	00200		TYT	PEC11.11	IRA KEEPS TRACK OF FORTAG ENTRIES.	F3801180
	11100	1	7/700	Ţ.	00174	DEC12	ALS	18	IRC KEEPS TRACK OF LICHTG ENTRIES.	F3B01190
	00200	Ö	16100	ŏ	00022	PECIZ	STO	EDAS	MOVE TAG OF CURRENT FORTAG ENTRY	F3801200
	00201	Ü	90100	v	02121		1 74	M1CON+4	INTO DECREMENT AND COMPARE WITH	F3B01210
	00202	.0	53400	4	02170	05613		HICHTGA1.A	TAG1 IN DECREMENT OF UCHTG	F3B01220
	00203	O	50000	4	09264	PECIS	ANA	MICONA13	ENTRIES. IF TAGS ARE FOUNT.	F3B01230
	00204	-0	32000	0	02205		CAS	FDAC	TEST FORTAG INTERNAL	F3801240
	00205	0	34000	0	05/3/		CAS	DEC14.42	FORMULA LIFE WITHIN PANGE	F3801250
.*	00206	1	77775	4	00211		171	PEC14949-3	CIVEN IN FIRST WARD	F3801250
	00207	0	02000	0	00243		IKA	PEC30	OF HOUTE ENTRY.	F3001200
	00210	1	77775	4	00211		IXI	PEC14949-3	OF COMP OF MOUTE LENGTH IN DECREMENT.	F3001210
)	00211	3	00000	4	00203	PEC14	IXH	PEC1394	END OF HOUTE TABLE	F3801200
	00212	1	77777	1	00213	PEC15	TXI	PEC16919-1	END OF OCHIG TABLES	F3D01290
)	00213	3	00000	1	00174	PEC16	TXH	PEC11:1	25 COMP OF FORTAG LENGTH IN DECREMENTS	F3B01300
								END OF EDIT CO	MPUTE CHIGEZ	F3801310
	00214	-0	75400	. 2	00000	PEC17	PXD	0,2	END OF FORTAG TABLE.	F3B01320
	00215	0	60100	0	02274		STO	CHTGL	SAVE VALUE OF IRB FROM	F3801330
	00216	0	50000	0	02170		CLA	M1CON	EDIT CHG TAG TABLE ROUTINE	F3801340
	00217	0	60100	0	02275		STO	CHTGE1	AS TABLE LENGTH CONTROL	L3801320
	00220	0	53400	4	02170		LXA	M1CON+4	WORD FOR CHANGE TAG TABLE	F3801360
	00221	0	50000	4	05741		CLA	CHTG • 4	SEARCH ROUTINE AT MIZEOU.	F3B01370
	00222	0	60100	0	02277		STO	CHTGFN	CALCULATE NUMBER OF ENTRIES	F3801380
	00223	1	77776	4	00224	PEC18	TXI	PEC18+1,4,-2	IN EDITED CHG TAG TABLE WITH	F3801390
	00224	-0	75400	4	00000		PXD	0 • 4	SAME INTERNAL FORMULA	F3B01400
	00225	0	40200	0	02274		SUB	CHTGL	NUMBER AND RECORD IN	F3B01410
	00226	0	10000	0	00232		TZE	PEC19	CONTROL WORDS CHTGEI AND CHTGE2	F3B01420
	00227	0	50000	4	05741		CLA	CHTG • 4	TO PREVENT SEARCHING ENTIRE	F3801430
	00230	0	40200	0	02277		SUB	CHTGFN	EDITED CHG TAG TABLE IN	F3B01440
	00231	0	10000	0	00223		TZE	PEC18	SEARCH AT M12500.	F3B01450
	00232	-0	75400	4	00000	PEC19	PXD	0 • 4		F3B01460
	00233	Õ	60100	0	02276		STO	CHTGE2		F3B01470
	00234	0	02000	0	00271		TRA	RST000	·	F3B01480
	00254	•		•				ROUTINE FOR EMP1	TY UCHTG TABLE	F3B01490
	00235	Ó.	50000	0	02170	PEC20	CLA	MICON	PLACE ZEROS INTO 3 CONTROL	F3B01500
	00235	o.	60100	ñ	02274		STO	CHTGL	WORDS FOR CHANGE TAG TABLE SEARCH	F3B01510
	00230	ñ	60100	ŏ	02275		STO	CHTGE1	ROUTINE TO INDICATE NO ENTRIES	F3B01520
	00231	ň	60100	ñ	02276		STO	CHTGE2	IN EDITED CHG TAG TABLE.	F3B01530
	00240	õ	76000	ñ	00143		PSE	99	SENSE LIGHT 3 TURNED ON TO INDICATE	F3B01540
	00241	٥.	02000	0	00271		TRA	RST000	NO ENTRIES IN EDITED CHG TAG TABLE	F3B01550
	.00242	J	02000	٠	00211			SEARCH FOR INT F	MLA NO OF CUR. FORTAG ENTRY IN UCHTG	F3B01560
	00242	Λ	50000	1	02327	PEC30	CLA	FORTAG • 1	TAG OF FORTAG ENTRY EQUAL	F3B01570
	00245	_0	32000	Ď	02205	. 2000	ANA	M1CON+13	LOAD O INTO IRA. IRB PUT UCHTG TABLE LENGTH IN ADDRESS AND FORTAG TABLE LENGTH IN DECREMENT PORTIONS OF ACCUM. OBTAIN 25 COMP OF FORTAG LENGTH AND UCHTG LENGTH AND STORE IN DEC OF TEST INST. SUCCESSIVE DUPLICATES IN FORTAG TABLE NOT COMPARED TO UCHTG TABLE ENTRIES. IRA KEEPS TRACK OF FORTAG ENTRIES. IRA KEEPS TRACK OF FORTAG ENTRIES. MOVE TAG OF CURRENT FORTAG ENTRY INTO DECREMENT AND COMPARE WITH TAGI IN DECREMENT OF UCHTG ENTRIES. IF TAGS ARE EQUAL, TEST FORTAG INTERNAL FORMULA LIES WITHIN RANGE GIVEN IN FIRST WORD OF UCHTG ENTRY. 2S COMP OF FORTAG LENGTH IN DECREMENT. END OF UCHTG TABLE. 2S COMP OF FORTAG LENGTH IN DECREMENT. MPUTE CHTGE2 END OF FORTAG TABLE. SAVE VALUE OF IRB FROM EDIT CHG TAG TABLE ROUTINE AS TABLE LENGTH CONTROL WORD FOR CHANGE TAG TABLE SEARCH ROUTINE AT M12500. CALCULATE NUMBER OF ENTRIES IN EDITED CHG TAG TABLE WITH SAME INTERNAL FORMULA NUMBER AND RECORD IN CONTROL WORDS CHTGE! AND CHTGE2 TO PREVENT SEARCHING ENTIRE EDITED CHG TAG TABLE IN SEARCH AT M12500. ITY UCHTG TABLE PLACE ZEROS INTO 3 CONTROL WORDS FOR CHANGE TAG TABLE SEARCH ROUTINE TO INDICATE NO ENTRIES IN EDITED CHG TAG TABLE IN SEARCH AT M12500. ITY UCHTG TABLE PLACE ZEROS INTO 3 CONTROL WORDS FOR CHANGE TAG TABLE SEARCH ROUTINE TO INDICATE NO ENTRIES IN EDITED CHG TAG TABLE. SENSE LIGHT 3 TURNED ON TO INDICATE NO ENTRIES IN EDITED CHG TAG TABLE MUAN OOF CUR. FORTAG ENTRY IN UCHTG TAG OF FORTAG ENTRY EQUAL TO TAGIO OF UCHTG ENTRY. TEST FORTAG INTERNAL FORMULA NUMBER LIES WITHIN RANGE	F3B01580
	00244	-0.	40100	Č	02272		STO	COMBOX	TEST FORTAG INTERNAL FORMULA	F3B01590
	00245	0	90100	7.	05262		CLA	UCHTG • 4	NUMBER LIES WITHIN RANGE	F3B01600
	00246	U	50000	-	07203		~-~			

00247	-0	32000	0	02205		ANA	M1CON+13	GIVEN IN FIRST WORD OF UCHTG	F3B01610
00250	0	34000	0	02273		CAS	COMBOX	ENTRY. IF RANGE CONDITION IS	F3801620
00251	1	7 7775	4	00211		TXI	PEC14,4,~3	SATISFIED, PRODUCE ENTRY	F3801630
00252	1	77775	4	00211		IXI	PEC14,4,-3	FOR EDITED CHG TAG TABLE.	F3B01640
00253	0	50000	4	05263		CLA	UCHTG • 4	EDITED CHG TAG ENTRY CONSISTS	F3801650
00254	0	76700	0	00026		ALS	22	OF 2 WORDS. FIRST WORD HAS	F3801660
00255	. 0	77100	0	00004		ARS	4	INTERNAL FORMULA NUMBER	F3B01670
.00256	0	34000	0	02273		CAS	СОМВОХ	IN DECREMENT AND ZEROS IN	F3801680
00257	0	02000	0	00262		TRA	PEC31	ADDRESS. SECOND WORD HAS	F3801690
00260	0	02000	0	00262		TRA	PEC31	TAGI IN DECREMENT AND TAGE	F3801700
00261	1	77775	4	00211		TXI	PEC14,4,-3	IN ADDRESS TAKEN FROM 2ND	F3801710
00262	0	50000	0	02273	PEC31	CLA	COMBOX	WORD OF OCHIG ENIRY. CONTINUE	F3801720
00263	0	60100	2	05741		510	CHIG•2	WITH FORTAG AND UCHIG TAG	F3B01730
00264	0	50000	4	05264		CLA	UCH16+1,4	COMPARISON LOOP UNTIL FORTAG	F3001740
00265	0	60100	2	05742		510	CHIGH192	I ABLE EXHAUSTED	F3801730
00266	1	77776	2	00267	55663	IXI	PEC32929-2	CUTC BLOCK EXCEEDS ALLOCATED 400 WORDS	F3B01760
00267	3	76646	2	00212	PEC32	TCY	PEC15929~602	CHIC BLOCK EXCEEDS ALLOCATED 600 WORDS	F3001770
00270	0	07400	4	00004		15%	494	CHIC BLUCK EXCEEDS ALLOCATED BOO WORDS	F3B01700
	•	7/000	_	00142	DETOOD	MCE	SAIA IADLE READ	TECT IS DO SILE EMPTY.	F3801800
00271	-0	76000	0	00142	K31000	TDA	PST005-1	SENSE LIGHT 2 ON INDICATES	F3B01810
00272	ŏ	02000	Š	00274		TDA	M10200	NO SYTY ENTRIFS.	F3B01820
00213	0	52400	2	00340		iΥΔ	M1FCTR 44	LOAD 5 INTO IRC DR RD ERROR CTR.	F3B01830
00214	n	76200	<u></u>	00301	RST005	RDS	193	SXDTX TABLE ON LOGICAL DRUM 1.	F3B01840
00215	ñ	46000	ñ	02213	1.01002	I DA	M1CON+19	STARTING AT LOCATION 202	F3B01850
00210	ŏ	70000	ŏ	05737		CPY	ERAS	1ST WORD IS ORIGIN + 2+ TAB LENGTH.	F3B01860
00277	ō	70000	ŏ	05740		CPY	ERAS+1	2ND DR WD IS CK SUM FOR 1ST WD.	F3B01870
00301	-0	50000	ŏ	05737		CAL	ERAS	SXDTX TABLE ENTRY HAS 3 WORDS.	F3B01880
00302	Õ	40200	ō	05740		SUB	ERAS+1	THIRD WORD IS CHECK SUM.	F3B01890
00303	0	10000	0	00306		TZE	RST020	TEST THAT FIRST 2 WORDS OFF	F3B01900
00304	2	00001	4	00275		TIX	RST005,4,1	DRUM READ CORRECTLY.	F3B01910
00305	ō	07400	4	00004		TSX	494	DRUM READ 5 TIMES UNSUCCESSFULLY.	F3B01920
00306	0	53400	4	02164	RST020	LXA	M1ECTR,4	LOAD 5 INTO IRC DR RD ERROR CTR	F3B01930
00307	. 0	50000	0	05737	RST021	CLA	ERAS	SUBTRACT ORIGIN+2 FROM FIRST	F3B01940
00310	0	40200	0	02214		SUB	M1CON+20	WORD TO GET.SXDTX TABLE LENGTH.	F3B01950
00311	-0	10000	0	00314		TNZ	RST030		F3B01960
00312	0	60100	0	02300		STO	SXTXL	STORE O AS SXDTX LENGTH IF NO	F3B01970
00313	0	02000	0	00340		TRA	M10200	ENTRIES AND GO TO READ AIL RTN.	F3B01980
00314	0	60100	0	02300	RST030	STO	SXTXL	STORE SXDTX LENGTH AND LOAD	F3B01990
00315	0	73400	3	00000		PAX	0.3	SXDTX LENGTH INTO IRA, IRB.	F3802000
00316	0	40200	0	00327		SUB	RST040+3	CALC. ADDRESS TO READ IN SXTX TABLE.	F3802010
00317	0	62100	0	00324		STA	RST040	INITIAL WORD OF TABLE IS	F3802020
00320	0	62100	0	00466		STA	M10305	FORTAG + 300 INITIALIZE	F3B02030
00321	0	62100	0	00474		SIA	M10310+1	ADDRESSES FOR SXIX TABLE SEARCH	F3D02040
00322	0	76200	0	00301		RD5	193	READ SXIX ENTRIES FROM	F3802050
00323	0	46000	0	02214	DCTO/O	LUA	MICUN+20	CDV LOOP	F3802000
00324	0	70000	2	00000	K51040	TIV	.U14 DCT040+2-1	CYTY TARIF LENGTH IN IRR.	F3802080
00325	2	00001	2	00324		IIX	K31U4U1211	SAIN INDIE LENGIN IN IRO	E3802000
00326	0	53400	2	02170		LXA	MICUNIZ	TEST LOGICAL SHM OF 1ST TWO	F3802100
00327	-0	20000	2	03003		ACI	SYTY+1.2	MUDD'S EURINE CHECK CHW IN 300	F3802110
00330	0	30100	2	03004		SUD	CALATIC	GIVEN IN FIRST WORD OF UCHTG ENTRY. IF RANGE CONDITION IS SATISFIED, PRODUCE ENTRY FOR EDITED CHG TAG TABLE. EDITED CHG TAG ENTRY CONSISTS OF 2 WORDS. FIRST WORD HAS INTERNAL FORMULA NUMBER IN DECREMENT AND ZEROS IN ADDRESS. SECOND WORD HAS TAGI IN DECREMENT AND TAG2 IN ADDRESS TAKEN FROM 2ND WORD OF UCHTG ENTRY. CONTINUE WITH FORTAG AND UCHTG TAG COMPARISON LOOP UNTIL FORTAG TABLE EXHAUSTED. CHTG BLOCK EXCEEDS ALLOCATED 600 WORDS. CHTG BLOCK EXCEEDS ALLOCATED 600 WORDS. ROUTINE TEST IF DO FILE EMPTY. SENSE LIGHT 2 ON INDICATES NO SXTX ENTRIES. LOAD 5 INTO IRC DR RD ERROR CTR. SXDTX TABLE ON LOGICAL DRUM 1, STARTING AT LOCATION 202 1ST WORD IS ORIGIN + 2+ TAB LENGTH. 2ND DR WD IS CK SUM FOR 1ST WD. SXDIX TABLE ENTRY HAS 3 WORDS. THIRD WORD IS CHECK SUM. TEST THAT FIRST 2 WORDS OFF DRUM READ CORRECTLY. DRUM READ 5 INTO IRC DR RD ERROR CTR SUBTRACT ORIGIN+2 FROM FIRST WORD TO GET.SXDTX TABLE LENGTH. STORE 0 AS SXDTX LENGTH IF NO ENTRIES AND GO TO READ AIL RTN. STORE SXDTX LENGTH AND LOAD SXDTX LENGTH INTO IRA, IRB. CALC. ADDRESS TO READ IN SXTX TABLE. INITIAL WORD OF TABLE IS FORTAG + 300. INITIALIZE ADDRESSES FOR SXTX TABLE SEARCH. READ SXTX ENTRIES FROM DRUM 1, LOC. 204. CPY LOOP SXTX TABLE LENGTH IN IRB. TEST LOGICAL SUM OF 1ST TWO WORDS EQUAL CHECK SUM IN 3RD WORD FOR EACH SXTX ENTRY. PROGRAM AUTOMATICALLY TRIES RE-READING DRUM 3 TIMES IF ERROR.	F3B02120
00331	0	10000	4	00000		77F	DSTOKO	PROGRAM AUTOMATICALLY TRIFS	F3802130
00332	Û	10000	'n	00333		125	DST000	DE-DEADING DRIM & TIMES IF FRANCE	F3802140
00333	4	00001	4	00307		117	K310219491	WE WENDING DUON 3 ITHES IT FUNOR	. 2045140

								DOWN DEED & TIMES UNCHCCESSERIEV.	F3802150
00334	. 0	07400	4	00004		TSX	494	DRUM READ 5 TIMES DISOCCESSFOLETS	F3B02160
00335	1	77775	2	00336	RS1060	IXI	RS1060+1+2+-3	CUTY TABLE LENGTH IN IDA.	F3B02170
00336	. 2	00003	1	00327		TIX	RST040+3,1,3	SXIX TABLE LENGTH IN IRA	E2002100
00337	0	02000	0	00340		TRA	M10200	SXTX TABLE IN CORES SUCCESSFULLY.	F3802100
							READ AIL, READ	DO ROUTINES	F 3BUZ 19U
00340	0	53400	4	02170	M10200	LXA	MICON 4	O IN IRC WHEN SKIPPING CLOSED SRTNS.	F3B02200
00341	õ	50000	ń	02171	M10210	CLA	M1CON+1	STORE 1 IN MITRC, TP 2.	F3B02210
00341		60100	ñ	02306	7110210	STO	M1 TRC	READ ERROR COUNTER.	F3B02220
00342		76200	×	02300	M10220	PD S	146	READ 1 RECORD OF AIL THE 2ND	F3B02230
00343		16200	٠	00222	MIUZZU	1 7 4	M1CON-3	FILE ON TO 2 ALREADY POSITIONEDA	F3B02240
00344	. 0	53400	1	02170		LXA	MICONTI	ALL DEC. DEAD OVER FORTAG FILE	F3B02250
00345	0	70000	1	02327	M10230	CPY	AIL91	THE CAUSE DOCUTION IN ALL DECORD.	F3B02260
00346	1	7777 7	1	00345		IXI	M10230 + 1 + - 1	IRA GIVES POSITION IN ALL RECORDS	F3B02270
00347	0	02000	0	00521		TRA	M10800	END OF AIL FILE.	E3002210
00350	0	76600	0	00333		WRS	219	END OF AIL RECORD.	F3B02200
00351	-0	76000	0	00012		RTT			F 3502290
00352	0	02000	0	00501		TRA	M10700	REDUNDANCY WHEN READING TP 2.	F3B02300
00353	-0	63400	1	02305	M10240	SXD	M1ALWN +1	STORE 2S COMPL AIL WORD COUNT	F3802310
00354	ň	53400	1	02170		LXA	M1CON 1	IN CURRENT AIL REC, USUALLY 100	F3B02320
00337	_^	75400	ī	00000		PXD	0.4	RD RTN ENTRY VIA TSX	F3B02330
00333	0	10000	7	00360		TZF	DAT1	ROUTINE TO SKIP OVER FORTRAN FUNCTIONS	F3B02340
00356		10000	'n	00300	DCT1	TDA	2-4	THE VALUE SET BY TSX RETURN F FON TEST	F3B02350
00357	0	02000	4	00002	REIL	CAL	ATL -1	A FORTRAN FONA A CLOSED SUBRINA	F3B02360
00360	-0	50000	1	02321	PAIL	CAL	AILTI	te thentieten by 4 Woods	F3802370
00361	-0	32000	1	02330		ANA	AIL+191	IS IDENTIFIED BY THORDS	F3B02380
00362	-0	32000	1	02331		ANA	AIL+2,1	FILLED WITH I DITO	E3802300
00363	-0	32000	1	02332		ANA	AIL+3,1	IEST IF ALL ENIRT IS ALL I DITS!	E3802400
00364	. 0	60200	0	05737		SLW	ERAS	INDICATES SUCCEEDING ENTRIES	E3D02400
00365	0	50000	0	05737		CLA	ERAS	BELONG TO A FORTRAN FON AND	F3802410
00366	0	40200	0	02211		SUB	M1CON+17	ARE SKIPPED OVER HERE	F3802420
00367	-0	10000	0	00410		TNZ	PAT5	AIL ENTRY NOT A FORTRAN FCN.	F3B02430
00370	0	50000	0	02176		CLA	M1CON+6	AIL ENTRY IS A FORTRAN FCN.	F3802440
00371	0	62200	0	00411		STD	PAT5+1	STORE 1 IN DECRE. F FCN EXISTS.	F3802450
00372	ī	77774	1	00420		IXT	OUT34,1,-4	TO TEST IF LAST AIL INSTR OF BUFFER.	F3802460
00372		75400	ī	00000	PAT2	PXD	0 • 1	COMPARE NO. CURRENT WORD OF	F3B02470
00313		34000	ñ	02305		CAS	MIALWN	AIL REC WITH AIL REC COUNT	F3B02480
00374		02000	Š	02303		TPA	PAT3	TO TEST IF LAST INSTR IN REC.	F3B02490
00373	, ,	02000	,	00400		TCY	M10210.4	READ NEXT ALL RECORD.	F3B02500
00376	. 0	07400	4	00341		TEV	4.4	WD COUNT NOT EQUAL TO REC COUNT	F3B02510
00377	U	07400	4	00004	0.72	C . A	ATI - 1	TEST IE OPEN SUBRIN END.	F3B02520
00400	0	50000	Ţ	02321	PAIS	CLA	MILTI DATA	BY 16 TH EIRST WORD OF FNTRY.	F3B02530
00401	, - 0	10000	0	00403		INZ	PATA 1	AC IN ICT WORD INDICATES F FON ENTRY	F3802540
00402	1	77774	1	00373		IXI	PA12919-4	. US IN 1ST WORD INDIENTED 1 TON ENTRY	F3B02550
00403	0	40200	0	02211	PAT4	SUB	MICON+17	-3//////////	F3B02560
00404	-0	10000	0	00410		TNZ	PAT5	151 DESIRED AIL ENTRY FOUND	F2D02570
00405	-0	50000	1	02327		CAL	AIL +1	TEST IF CURRENT ENTRY	F3002310
00406	-0	32000	1	02330		ANA	AIL+1,1	AN OPEN SUBRIN END OR	F3D02300
00407	0	02000	0	00412		TRA	OUT24	ANOTHER FORTRAN FCN.	F3802590
00410	0	53400	4	02170	PAT5	LXA	M1CON,4		F3802600
0041	-2	00000	Ô	00426	_	TXL	M10250	UNCON. TR TO READ IN DO RECORD.	F3802610
00411	^	32000	1	02331	OUT 24	ANA	A1L+2+1	CONTINUATION OF TEST IF	F3B02620
00412	-0	22000	1	02333	JU127	ΔΝΔ	AIL+3.1	CURRENT ENTRY F FCN OR	F3B02630
00413	, -0	74000	7	00004		COM		OPEN SUBRTN ENTRY.	F3B02640
00414	. 0	10000	Š	00000		ANA	M1CON+17	-37777777777	F3B02650
00415	-0	32000	Û	02211		TZE	DAT2-1	ENTRY INDICATES F FCN.	F3B02660
00416	0	10000	0	00372		125	DAT2-1	OPEN SUBRIN END.	F3B02670
00417	1	77774	1	00373	011 T = 1	111	CA1671774	COMPARE NO. CHRRENT WORD OF	F3B02680
00420	-0	75400	1	00000	00134	PXU	011	DRUM READ 5 TIMES UNSUCCESSFULLY. SXTX TABLE LENGTH IN IRA. SXTX TABLE IN CORES SUCCESSFULLY. DO ROUTINES 0 IN IRC WHEN SKIPPING CLOSED SRINS. STORE 1 IN MITRC, TP 2. READ ERROR COUNTER. READ 1 RECORD OF AIL, THE 2ND FILE ON TP 2 ALREADY POSITIONED. AIL REC. READ OVER FORTAG FILE. IRA GIVES POSITION IN AIL RECORD. END OF AIL FILE. END OF AIL FILE. END OF AIL RECORD. REDUNDANCY WHEN READING TP 2. STORE 2S COMPL AIL WORD COUNT IN CURRENT AIL REC, USUALLY 100 RD RIN ENTRY VIA TSX ROUTINE TO SKIP OVER FORTRAN FUNCTIONS IRC VALUE SET BY TSX RETURN F FCN TEST A FORTRAN FCN, A CLOSED SUBRTN, IS IDENTIFIED BY 4 WORDS FILLED WITH 1 BITS. TEST IF AIL ENTRY IS ALL 1 BITS, INDICATES SUCCEEDING ENTRIES BELONG TO A FORTRAN FCN AND ARE SKIPPED OVER HERE. AIL ENTRY NOT A FORTRAN FCN. AIL ENTRY IS A FORTRAN FCN. AIL ENTRY IS A FORTRAN FCN. STORE 1 IN DECRE. F FCN EXISTS. TO TEST IF LAST AIL INSTR OF BUFFER. COMPARE NO. CURRENT WORD OF AIL REC WITH AIL REC COUNT TO TEST IF LAST INITE IN REC. READ NEXT AIL RECORD. WD COUNT NOT EQUAL TO REC COUNT TO TEST IF OPEN SUBRTN END, BY IS IN FIRST WORD OF ENTRY. OS IN IST WORD INDICATES F FCN ENTRY -3777777777777. IST DESIRED AIL ENTRY FOUND TEST IF CURRENT ENTRY AN OPEN SUBRTN END OR ANOTHER FORTRAN FCN. UNCON. TR TO READ IN DO RECORD. CONTINUATION OF TEST IF CURRENT ENTRY F FCN OR OPEN SUBRTN ENTRY. -3777777777777. ENTRY INDICATES F FCN. OPEN SUBRTN END. COMPARE NO. CURRENT WORD OF	

TD

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00421	O	34000	0	02305		CAS	MIALWN	AIL REC WITH AIL REC COUNT TO TEST IF LAST INSTR IN RECORD. READ NEXT AIL RECORD. WORD COUNT EXCEEDS TOTAL COUNT IN REC. ADD 4 IRA, AT LEAST 1 INSTR IN ROUTINE STORE 1 IN MITCO, TP 2 READ ERROR COUNTER. READ 1 RECORD OF DO, THE 1ST FILE ON TP 2 ALREADY POSITIONED. DO REC. READ 100 WDS BEYOND AIL. ITB GIVES POSITION IN DO RECORD. TO END OF DO FILE RTN. TO END OF DO FILE RTN. TO END OF DO RECORD RTN. IF DO FILE EMPTY, NO SXIX TABLE MADE. REDUNDANCY WHEN READING TP 2. STORE 2S COMPL DO WORD COUNT. TEST IF SXDTX TABLE EMPTY FROM STORED TABLE LENGTH. NO SXIX ENTRIES, GO TO AIL AND DO COMPILATION ROUTINES. SAVE IRC FOR TSX TEST ADD 4 IRB GET 1ST WD LAST DO INSTR. TEST CURRENT DO INST AN SXD BY EXAMINING 2ND WORD OF INSTR. CURRENT INSTR IS SXD. IRD 2ERO MEANS ALL DO ENTRIES IN BLOCK EXAMINED FOR SXD. IRC NOT ZERO AFTER 1ST DO REC IN CORES. IRC PERMITS RE-ENTRY VIA TSX TO DO + AIL CMP RTN TEST IF END AIL FILE. TO COMPARE AIL + DO FMLA NOS. SENSE LIGHT 1 ON IF AIL EOF. TO COMPILE DO INSTR. SEARCH SXTX TABLE FOR ENTRY EQUAL TO ADDR PORTION GIVEN IN 3RD WD CURRENT SXD DO INSTR. ADDR SXTX ORGIN PLUS LENGTH SXTX ENTRY CORR TO SXD FOUND. NO SXTX ENTRY CORR TO SXD FOUND. ROUTINE PUT 2ND WORD SXTX TABLE ENTRY INTO ADDRESS WD CURRENT SXD DO INSTR. CHANGE SXD FMLA NO. TO ZEROS IN DO RECORD BUFFER. TO CONTINUE SXD SEARCH OF DO REC. END OF FILE ROUTINES REDUNDANCY CHECK READING AIL RECORD. TEST IF TAPE 2 READ ALREADY 5 TIMES. IF NOT, INCREASE COUNT BY 1 IN TAPE READ	F3B02690
00422	0	02000	0	00425		TRA	00143	DEAD MEYT ALL DECODD.	F3B02710
00423	. 0	07400	4	00341	00141	15%	M1021094	WORD COUNT EXCEEDS TOTAL COUNT IN RECA	F3B02720
00424	0	07400	4	00004	OUTAS	157	494 DAT2-1	ADD A IDA. AT LEAST 1 INSTR IN ROUTINE	F3B02730
00425	1	77774	1	00373	00143	IXI	M12919-4	CTODE 1 IN MITPC. TP 2	F3B02740
00426	. 0	50000	0	021/1	M10250	CTO	MICONTI	DEAD EDDOR COUNTER	F3B02750
00427	0	60100	0	02306	W10060	210	MIRC	DEAD 1 DECORD OF DO. THE 1ST	F3B02760
00430	0	16200	ō	00224	M10260	LVA	M1CON - 2	FILE ON TP 2 ALREADY POSITIONED.	F3B02770
00431	Ŏ	23400	2	02170	W10270	CDV	DO-2	DO REC. READ 100 WDS BEYOND AIL.	F3B02780
00432	0	70000	2	02413	MIUZIO	TYI	M10270.21	IRR GIVES POSITION IN DO RECORD.	F3B02790
00433	•	02000	6	00432		TRA	M10850	TO END OF DO FILE RTN.	F3B02800
00434	Ň	76600	~	00331		WRS	219	TO END OF DO RECORD RTN.	F3B02810
00433	۰.0	76000	٨	00033		RTT	217	IF DO FILE EMPTY. NO SXTX TABLE MADE.	F3B02820
00436	-0	18000	~	00511		TRA	M10750	REDUNDANCY WHEN READING TP 2.	F3B02830
00451	-0	62600	2	00311		SYD	MIDOWN - 2	STORE 25 COMPL DO WORD COUNT.	F3B02840
00440	-0	50000	6	02304		CLA	SXTXL	TEST IF SXDTX TABLE EMPTY	F3B02850
00441	-0	10000	ň	00445		TNZ	M10285-2	FROM STORED TABLE LENGTH.	F3B02860
00442	-0	53400	2	02170		LXA	M1CON+2	NO SXTX ENTRIES, GO TO AIL AND DO	F3B02870
00445	. 0	02000	ñ	00454		TRA	M10290	COMPILATION ROUTINES.	F3B02880
00444	-0	63400	4	02302		SXD	CBOX • 4	SAVE IRC FOR TSX TEST	F3B02890
00446	ĭ	00004	2	00447		TXI	M10285,2,4	ADD 4 IRB GET 1ST WD LAST DO INSTR.	F3B02900
00447	ō	50000	2	02474	M10285	CLA	DO+1+2	TEST CURRENT DO INST AN SXD	F3B02910
00450	ŏ	40200	ō	02246		SUB	M1ABC+25	BY EXAMINING 2ND WORD OF INSTR.	F3B02920
00451	ŏ	10000	Õ	00463		TZE	M10300	CURRENT INSTR IS SXD.	F3B02930
00452	3	00000	2	00446		TXH	M10285-1,2,0	IRB ZERO MEANS ALL DO ENTRIES	F3B02940
00453	-0	53400	4	02302		LXD	CBOX • 4	IN BLOCK EXAMINED FOR SXD.	F3B02950
00454	-0	75400	4	00000	M10290	PXD	0 • 4	IRC NOT ZERO AFTER 1ST DO REC	F3B02960
00455	Ô	10000	0	00457		TZE	M10295	IN CORES. IRC PERMITS RE-ENTRY	F3B02970
00456	. 0	02000	4	00002		TRA	2,4	VIA TSX TO DO + AIL CMP RTN	F3802980
00457	-0	76000	0	00141	M10295	MSE	97	TEST IF END AIL FILE.	F3B02990
00460	.0	02000	0	00626		TRA	M11010	TO COMPARE AIL + DO FMLA NOS.	F3803000
00461	0	76000	0	00141		PSE	97	SENSE LIGHT 1 ON IF AIL EOF.	F3803010
00462	0	02000	0	00636		TRA	M11030	TO COMPILE DO INSTR.	F3B03020
00463	0	50000	2	02475	M10300	CLA	DO+2,2	SEARCH SXTX TABLE FOR ENTRY	F3B03030
00464	0	60100	0	02301		STO	SXLOC	EQUAL TO ADDR PORTION GIVEN IN	F3B03040
00465	0	53400	4	02300		LXA	SXTXL•4	3RD WD CURRENT SXD DO INSTR.	F3B03050
00466	0	50000	4	00000	M10305	CLA	094	ADDR SXTX ORGIN PLUS LENGTH	F3003000
00467	0	40200	0	02301		SUB	SXLOC	AND THE PARTY AND TO SAN FOLING	F3D03070
00470	0	10000	0	00473		TZE	M10310	SXTX ENTRY CORR TO SXD FOUND.	F3803000
00471	2	00003	4	00466		TIX	M10305,4,3	THE SHEET COOR TO CAN ENTRE	F3803090
00472	O	02000	0	00452		TRA	M10285+3	NO SXIX ENIRY CORR TO SXD FOUNDS	F3803110
00473	2	00001	4	00474	M10310	TIX	M10310+1,4,1	ROULINE PUL ZNU WORD SAIX	F3B03110
00474	0	50000	4	00000		CLA	0,4	CURRENT CAR DO INCLES	F3803120
00475	0	60100	2	02475		510	00+2+2	CHANCE CYD EMIA NO. TO	F3B03140
00476	0	50000	0	02170		CLA	WTCOM .	TERMS IN DO DECORD RIFEEP.	F3803150
00477	0	60100	2	02473		310	UU 1 2	TO CONTINUE SYD SEADCH OF DO RECA	F3803160
00500	0	02000	0	00452		KA	MIUZODTO	END OF FILE POUTINES	F3803170
			_		W10700	C1 4	ERRUR RUUIINES	DEDUNDANCY CHECK READING	F3R03180
00501	0	50000	0	02306	W10100	CLA	MICTO	ATT DECADA, TEST IF	F3803190
00502	. 0	40200	0	02164		175	MIECIR	TAPE 2 PEAD ALREADY 5	F3B03200
00503	0	10000	0	00510		175	MIECTOAL	TIMES. IF NOT. INCREASE	F3B03210
00504	0	40000	Ŏ	02165	,	STO	MITOC	COUNT BY 1 IN TAPE READ	F3B03220
.00505	0	60100	0	02306		210	MILIKO	COOK! DI'T THE INIT WEND	

				٠.					COUNTER AND READ AIL RECORD AGAIN. AIL REC. READ 5 TIMES UNSUCCESSFULLY. REDUNDANCY CHECK READING DO RECORD. TEST IF TAPE 2 READ ALREADY 5 TIMES. IF NOT, INCREASE COUNT BY 1 IN TAPE READ COUNTER AND READ DO RECORD AGAIN DO REC. READ 5 TIMES UNSUCCESSFULLY. END OF FILE FOR AIL ROUTINE. TURN SENSE LIGHT 1 ON FOR AIL EOF AND TEST IF ENTRIES IN SXTX TBL BY LIGHT 2 ON. TO WR ON TP 3 INSTR IN BUFFER. IRC ZERO IF DO FILE NOT READ YET. TO READ DO FILE RECORD. TO COMPILE DO INSTRUCTIONS. END OF FILE FOR DO ROUTINE. TURN SENSE LIGHT 2 ON FOR DO EOF AND TEST IF AIL AT EOF. TINE ROUTINE WR ON TP 3 INSTR REMAINING IN CIB BUFFER FROM CIT. TURN-OFF ALL SENSE LIGHTS. IRB 2S COMP NO WORDS CIB BUFFER. WR FORTRAN FCNS 2ND FILE TP 3. WRITE FORTRAN FCNS AS 2ND FILE ON TAPE 3. 1 IN DECREMENT IF F FCNS IN AIL FILE. WR 2ND TAPE MARK ON TP 3 FOR MERGE 1 END. SPACE OVER DIAGNOSTIC RECORD. TO READ IN MERGE 2. LOAD 5 INTO IRC TP RD ERROR CTR. READ AIL RECORD COUNT, THE NEXT FILE AFTER AIL EOF TO BACKSPACE TP 2 TO START OF AIL FILE TO GET F FCNS AT BEGINNING OF COMPAIL FILE.	
										* .
00506	0	76400	٥	00222	M10705	BST	146		COUNTER AND READ AIL	F3B03230
00507	ŏ	02000	ŏ	00343	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	TRA	M10220		RECORD AGAIN.	F3B03240
00510	ŏ	07400	4	00004	MIEATC	TSX	494		AIL REC. READ 5 TIMES UNSUCCESSFULLY.	F3B03250
00511	ŏ	50000	0	02306	M10750	CLA	MITRC		REDUNDANCY CHECK READING	F3B03260
00512	ŏ	40200	ŏ	02164		\$UB	MIECTR		DO RECORD. TEST IF	F3B03270
00513	ŏ	10000	0	00520		TZE	M1EDTC		TAPE 2 READ ALREADY 5	F3B03280
00514	ŏ	40000	Õ	02165		ADD	M1ECTR+1		TIMES. IF NOT, INCREASE	F3B03290
00515	Ö	60100	Ŏ	02306		STO	MITRC		COUNT BY 1 IN TAPE READ	F3B03300
00516	ŏ	76400	Ō	00224	M10755	BST	148		COUNTER AND READ DO	F3B03310
00517	Ö	02000	0	00430		TRA	M10260		RECORD AGAIN	F3B03320
00520	ō	07400	4	00004	MIEDTC	TSX	494		DO REC. READ 5 TIMES UNSUCCESSFULLY.	F3B03330
00521	0	76000	0	00141	M10800	PSE	97		END OF FILE FOR AIL ROUTINE.	F3B03340
00522	-0	76.000	0	00142		MSE	98		TURN SENSE LIGHT 1 ON FOR AIL	F3B03350
00523	0	02000	Ó	00526		TRA	M10810		EOF AND TEST IF ENTRIES IN SXTX TBL	F3B03360
00524	Ō	76000	0	00142		PSE	98		BY LIGHT 2 ON.	F3B03370
00525	Ō	02000	0	00536		TRA	M10900		TO WR ON TP 3 INSTR IN BUFFER.	F3B03380
00526	-0	75400	4	00000	M10810	PXD	0,4		IRC ZERO IF DO FILE NOT READ YET.	F3B03390
00527	0	10000	0	00426		TZE	M10250		TO READ DO FILE RECORD.	F3B03400
00530	0	02000	Ô	00636		TRA	M11030		TO COMPILE DO INSTRUCTIONS.	F3B03410
00531	ō	76000	Õ	00142	M10850	PSE	98		END OF FILE FOR DO ROUTINE.	F3B03420
00532	-0	76000	0	00141		MSE	97		TURN SENSE LIGHT 2 ON FOR DO	F3B03430
00533	ŏ	02000	Õ	00751		TRA	M12000		EOF AND TEST IF AIL AT EOF.	F3B03440
00534	ŏ	76000	Ō	00141		PSE	97			F3B03450
00535	Õ	02000	0	00536		TRA	M10900			F3B03460
V	Ţ,		•				M1 TERMINAL	ROU1	TINE	F3B03470
00536	0	76600	0	00223	M10900	WRS	147		ROUTINE WR ON TP 3 INSTR REMAINING	F3B03480
00537	-0	53400	2	02317		LXD	880X • 2		IN CIB BUFFER FROM CIT.	F3B03490
00540	0	76000	0	00140		PSE	96		TURN-OFF ALL SENSE LIGHTS.	F3B03500
00541	0	70000	1	02637	M10910	CPY	CIB,1			F3B03510
00542	1	77777	1	00543		TXI	M10920 • 1 • - 1			F3B03520
00543	1	00001	2	00544	M10920	IXT	M10920+1,2,1	•	IRB 2S COMP NO WORDS CIB BUFFER.	F3B03530
00544	3	00001	2	00541		TXH	M10910,2,1			F3B03540
00545	0	77000	0	00223	M10930	WEF	147		WR FORTRAN FCNS 2ND FILE TP 3.	F3B03550
00546	-0	53400	2	00411	PAT10	LXD	PAT5+1 • 2		WRITE FORTRAN FCNS AS 2ND FILE ON TAPE 3.	F3B03560
00547	3	00000	2	00553		TXH	PAT12+2+0		1 IN DECREMENT IF F FCNS IN AIL FILE.	F3B03570
00550	0	77000	0	00223	PAT11	WEF	147		WR 2ND TAPE MARK ON TP 3 FOR MERGE 1 END.	F3B03580
00551	0	76200	0	00221		RTB	1		SPACE OVER DIAGNOSTIC RECORD.	F3B03590
00552	0	02000	0	00004		TRA	4		TO READ IN MERGE 2.	F3B03600
00553	-0	63400	1	02166	PAT12	SXD	M1ECTR+2,1			F3B03610
00554	-0	63400	2	02167		SXD	M1ECTR+3,2			F3803620
00555	0	53400	1	02164		LXA	M1ECTR • 1		LOAD 5 INTO IRC TP RD ERROR CTR.	F3B03630
00556	0	76200	0	00222		RDS	146		READ AIL RECORD COUNT, THE	F3B03640
00557	Ō	70000	0	05737		CPY	ERAS		NEXT FILE AFTER AIL EOF	F3B03650
00560	0	07400	2	00064		TSX	M10043 • 2		TO BACKSPACE TP 2 TO	F3B03660
00561	0	76100	0	00556		NOP	PAT12+3		START OF AIL FILE TO GET .	F3B03670
00562	-0	53400	1	02166		LXD	M1ECTR+2:1		F FCNS AT BEGINNING OF COMPAIL FILE.	F3B03680
00563	-0	53400	2	02167		LXD	M1ECTR+3,2			F3B03690
00564	·	22400	_	02121		_,				_
00565	_	00002		-			PAT13,2,2			F3B03710
00566		76400			PAT13	BST				F3B03720
00567		00001					PAT13,2,1		DUE 1.500 D. ON 500 DO 505	F3B03730
00570		76000				PSE			PUT LIGHT 2 ON FOR DO EOF.	F3B03740
00571		76000				PSE	•		PUT LIGHT 3 ON FOR NO CHTG TBL.	F3B03750
00572	0	50000	0	02170		CLA	M1CON		INITIALIZE BBOX WITH 0. BBOX	F3B03760

								WHERE STREET, ST.	E2002770
00573	0	60100	0	02317		STO	BBOX	KEEPS COUNT OF RECORDS IN CIB BUFFERS	F3803770
00574	0	07400	4	00341		TSX	M10210•4	TO READ ALL FILE FOR FORTRAN PCNS	E3803700
00575	0	76100	0	00000		NOP		NOP NEEDED FOR ROUTINE AT RETT.	F3003130
00576	-0	50000	1	02327	PAT14	CAL	AIL+1	TEST FOR FORTRAN FCN. ALL	F3803800
00577	-0	32000	1	02330		ANA	AIL+1,1	WORD ALL ONES IF A FORTRAN FCN.	F3803810
00600	-0	32000	1	02331		ANA	AIL+2.1		F3B03820
00600	-0	32000	î	02333		ΔΝΔ	AII +3.1		F3B03830
00601	-0	10000	<u>,</u>	02332		CI W	EDAS		F3B03840
00602	Ū	60200	Ď	05757		CLA	EDAS		F3B03850
00603	0	50000	Ū	05/3/		CLA	KICON 17		F3B03860
00604	0	40200	0	02211		SUB	MICON+17	CHICK IC NOT A FORTRAN ECN.	F3B03870
00605	-0	10000	0	00615		TNZ	OUT	ENIRY IS NOT A FORTRAN FOR	E3803880
00606	1	77774	1	00607	PAT15	TXI	PAT15+1,1,-4		E3D03000
00607	-0	75400	1	00000		PXD	0,1	TEST IF LAST WORD OF	F3003070
00610	0	34000	0	02305		CAS	MIALWN	AIL BUFFER.	F3803900
00611	0	02000	0	00751		TRA	M12000	TO AIL COMPILATION ROUTINE.	F3803910
00612	Ô	07400	4	00341	PAT16	TSX	M10210,4	TO READ NEXT AIL ENTRY.	F3B03920
00612	ŏ	07400	À	00004		TSX	4.4	NO. OF WORDS OF AIL REC NOT A MULTIPLE OF 4	F3B03930
00616	ŏ	02000	'n	00751		TRA	M12000	TO AIL COMPILATION ROUTINE.	F3B03940
00614	ĭ	77777	ž	00616	OUT	TXI	OUT1 • 2 • - 1	MAKE IRB VALUE ZERO.	F3B03950
00015		42400	2	00010	OUT1	SXD	PAT5+1.2	DECREMENT ZERO MEANS NO FORTRAN FCNS.	F3B03960
00010	-0	7/200	~	00711	OUTIA	DUC	146	SPACE OVER REMAINING	F3B03970
00617	Ŏ	76200	ŏ	00222	00115	CDV	EDAC	ALL ENTRIES WHICH ARE	F3B03980
00620	.0	70000	Ō	05/3/	00114	TOA	CUT16	NOT FORTPAN FONS TO POSITION	F3B03990
00621	0	02000	0	00620		IKA	00114	TARE 2 AT END OF ALL FILE.	F3804000
00622	0	02000	0	00624		IKA	00122	TAPE 2 AT END OF ATE TIELS	F3804010
00623	0	02000	0	00617		TRA	00113		F3804020
00624	0	53400	1	02170	OUT22	LXA	M1CON+1	TO ANY TO SEE THEFT IN SER DIFFER	E3804020
00625	0	02000	0	00536		TRA	M10900	KEEPS COUNT OF RECORDS IN CIB BUFFER. TO READ AIL FILE FOR FORTRAN FCNS. NOP NEEDED FOR ROUTINE AT RETI. TEST FOR FORTRAN FCN. AIL WORD ALL ONES IF A FORTRAN FCN. ENTRY IS NOT A FORTRAN FCN. TEST IF LAST WORD OF AIL BUFFER. TO AIL COMPILATION ROUTINE. TO READ NEXT AIL ENTRY. NO. OF WORDS OF AIL REC NOT A MULTIPLE OF 4 TO AIL COMPILATION ROUTINE. MAKE IRB VALUE ZERO. DECREMENT ZERO MEANS NO FORTRAN FCNS. SPACE OVER REMAINING AIL ENTRIES WHICH ARE NOT FORTRAN FCNS TO POSITION TAPE 2 AT END OF AIL FILE. TO WR ANY F FCN ENTRIES IN CIB BUFFER. SUALLY MERGED AHEAD OF COMPDO INSTR IF BOTH NO, EXCEPT FOR READ AND WRITE, WHEN DO PRECEDES.	F3D04030
							COMPAIL INSTR US	SUALLY MERGED AHEAD OF COMPDO INSTR IF BOTH	F3B04040
							HAVE SAME FMLA	NO, EXCEPT FOR READ AND WRITE, WHEN DO PRECEDES	563804050
							THE AIL FOR TIME	ING REASONS. FMLA NO. DECREMENT PART HERE.	F3B04060
							COMPARISON OF A	IL AND DO FMLA NOS AND	F3B04070
							COMPILATION OF I	DO INSTRUCTIONS	F3B04080
00636	0	50000	2	02473	M11010	CLA	DO • 2	COMPARE ALL AND DO INTERNAL	F3B04090
00020	ŏ	63300	2	02713	1111010	STD	MIDOFN	FORMULA NOS.	F3B04100
00627	Ň	07400	'n	02301	M11015	TSX	FRR2.4	TEST FOR FORTRAN FCNS.	F3B04110
00630	Ŏ	07400	4	00144	MIIOIS	ANA	M1CON+13	+077777000000	F3B04120
00631	-0	32000	Ū	02205		CAS	MICONIIS	COMPARE ATL AND	F3B04130
00632	0	34000	0	02307		CAS	MIDOFN	ALL EMIA NO GREATER DO NO.	F3B04140
00633	0	02000	0	00636		IKA	M11030	ATL FMLA NO FOUNTS DO NO.	F3804150
00634	0	02000	O	00667		IRA	WIIO/O	AT ENLA NO. LECE DO NO.	F3804160
00635	0	02000	0	00751		TRA	M12000	COURT P DO INCED BY	F3804170
00636	0	53400	4	02174	M11030	LXA	M1CON+4,4	COMPILE DO INSIR DI	E2004110
00637	0	50000	2	02473	M11031	CLA	DO • 2	GATHERING 4 WORDS FROM	F3D04100
00640	0	60100	4	02326		STO	M1CW+4,4	DO REC BUFFER AND PLACING	F3804190
00641	1	77777	.2	00642		TXI	M11035+2+-1	THEM IN CALLING SEQ LOCATIONS.	F3804200
00642	2	00001	4	00637	M11035	XIT	M11031,4,1		F3804210
00642	õ	07400	4	00707		TSX	CIT00+4	TO CIT COMPILING ROUTINE.	F3B04220
00644	0	00000	'n	02322		HTR	M1CW	CALLING SEQ FOR LOCATIONS	F3B04230
00044	0	00000	0	02322		HTR	M1CW+1	OF 4 COMPILED WORDS.	F3B04240
00045	0	00000	~	02337		HTR	M1CW+2		F3B04250
00646	Û	00000	ŏ	02225		HTD	M1CW+3		F3B04260
00647	0	00000	Ŏ	02323		D A D	0.2	TEST IF END OF CUR DO REC	F3B04270
00650	-0	75400	2	00000		CAS	M1 DOWN	BY COMPARING CURRENT DO WD	F3B04280
00651	0	34000	0	02304		CAS	MIDOMI	POSITION WITH TOTAL DO	F3B04290
00652	0	02000	0	00655		IRA	M11022	DEC HODD COUNT.	F3B04300
00653	0	07400	4	00426		15X	M10250 94	NO, EXCEPT FOR READ AND WRITE, WHEN DO PRECEDES ING REASONS. FMLA NO. DECREMENT PART HERE. IL AND DO FMLA NOS AND DO INSTRUCTIONS COMPARE AIL AND DO INTERNAL FORMULA NOS. TEST FOR FORTRAN FCNS. +077777000000. COMPARE AIL AND AIL FMLA NO GREATER DO NO. AIL FMLA NO. EQUALS DO NO. AIL FMLA NO. LESS DO NO. COMPILE DO INSTR BY GATHERING 4 WORDS FROM DO REC BUFFER AND PLACING THEM IN CALLING SEQ LOCATIONS. TO CIT COMPILING ROUTINE. CALLING SEQ FOR LOCATIONS OF 4 COMPILED WORDS. TEST IF END OF CUR DO REC BY COMPARING CURRENT DO WD POSITION WITH TOTAL DO REC WORD COUNT.	, 2004300

00654	0	07400 4	0000	4	TSX	4 • 4	NO OF WORDS NOT A MULTIPLE OF 4 END OF AIL FILE IF LIGHT 1 ON. AIL AT EOF. CONTINUE COMPILING DO INST SAME BLOCK AS PREVIOUS ONE. AIL AND DO FMLA NOS IN DECREMENTS. DO FMLA NO. GREATER AIL NO. DO FMLA NO. EQUALS AIL NO. DO FMLA NO. LESS AIL NO. TEST IF CURRENT AIL OPER RDS TEST IF CURRENT AIL OPER WRS RESTORE IRA CURRENT AIL VALUE. TO TEST IF SPACING TAPE. TEST IF BOTH AIL AND DO HAVE SAME FORMULA NO. DETERMINE IF DO OR AIL INSTR COMPILED FIRST. LXD BEFORE RDS HAS ZERO LOCATION. TO COMPILE AIL INSTRUCTION. INCREASE AIL IST WD ADDRESS FOR SEC. 4 PURPOSES. TO COMPILE DO INSTR. NE.SCITOO E1C CELL FOR SAVING MQ. E2C CELL FOR SAVING IRA. E3C CELL FOR SAVING IRA. E3C CELL FOR SAVING IRB. 2S COMP NO. ALREADY IN BLOCK. TR NO. WDS IN BLOCK LESS 100. WRITE-OUT BLOCK OF 100 WORDS WHICH MAKE UP 25 COMPILED INSTR. ON TP 3. WRITING OF CIB BUFFER FINISHED WHEN IRB IS 0. ROUTINE TO PLACE 4 WORDS OF COMPILED INSTR IN CIB BUFFER OF 100 WORDS. IRC CONTAINS 2S COMP LOC OF CALLING SEQ LESS 1. INSTR ADDRESS SEQUENTIALLY MICW, MICW+1. MICW+2 AND MICW+3. IRA LOADED WITH 4. 2S COMPL NO. WORDS ALREADY IN BLOCK. RESTORE MQ, IRA, IRB.	F3B04310
00655 -	-0	76000 0	0014	1 WT1022	MSE	91	END OF MIL FILL II LIGHT I ONE	F3804330
00656	0	02000 0	0066	1 -	TRA	W11000	AT AT FOE CONTINUE	E3004330
00657	0	76000 0	0014	1	PSE	97	COMPLIANCE DO INSTR.	F3804340
00660	0	02000 0	0063	6	TRA	M11030	COMPILING DO INSTRO	F3804330
00661	0	50000 2	0247	3 M11060	CLA	DO • 2	GET NEXT DO INST SAME BLOCK	F2004300
00662 -	-0	32000 0	0220	5	ANA	M1CON+13	AS PREVIOUS ONE.	F3804370
00663	0	34000 0	0230	7	CAS	M1DOFN	AIL AND DO FMLA NOS IN DECREMENTS.	F3804380
00664	0	02000 0	0062	6	TRA	M11010	DO FMLA NO. GREATER AIL NO.	F3804390
00665	0	76100 0	0000	0	NOP		DO FMLA NO. EQUALS AIL NO.	F3804400
00666	0	02000 0	0063	6	TRA	M11030	DO FMLA NO. LESS AIL NO.	F3804410
00667	1	77777 1	0067	0 M11070	TXI	M11070+1,1,-1		F3804420
00670	0	50000 1	0232	7	CLA	AIL+1	TEST IF CURRENT AIL OPER RDS	F3804430
00671	0	40200 0	0223	6	SUB	M1ABC+17		F3804440
00672	0	10000 0	0067	7	TZE	M11080		F3B04450
00673	0	50000 1	0232	7	CLA	AIL+1	TEST IF CURRENT AIL OPER WRS	F3B04460
00674	ŏ	40200 0	0224	7	SUB	M1ABC+26		F3B04470
00675	ŏ	10000 0	0067	7	TZE	M11080		F3B04480
00676	ĭ	00001 1	0075	i	TXI	M12000 • 1 • 1	RESTORE IRA CURRENT AIL VALUE.	F3B04490
. 00070	î	00001 1	0070	0 M11080	TXI	ERR3 • 1 • 1	TO TEST IF SPACING TAPE.	F3B04500
00011	ā	50000 2	0247	3 FRR3	CLA	DO • 2	TEST IF BOTH AIL AND DO HAVE SAME FORMULA NO	F3B04510
00700	A	33000 2	0220	6	ANA	M1CON+14	DETERMINE IF DO OR AIL INSTR COMPILED FIRST.	F3804520
00701 -	-0	10000 0	0070	4	TZF	RFT2	LXD BEFORE RDS HAS ZERO LOCATION.	F3B04530
00702	ŏ	10000 0	0076	1	TRA	M12000	TO COMPILE AIL INSTRUCTION.	F3B04540
00703	ŏ	52000 0	0012	DET2	CLA	M1CON+16	INCREASE AIL 1ST WD ADDRESS	F3B04550
00704	ŏ	50000 0	0221	0 KE 12	OPS	ATI AT	FOR SEC. 4 PURPOSES.	F3B04560
00705	-0	60200 1	0232	,	TDA	M11030	TO COMPILE DO INSTR.	F3B04570
00706	U	02000 0	0003	Ь	INA	COMPILING POLITI	NFACITOO	F3804580
	_			CITOO	STO	E1C	FIC CELL FOR SAVING MOA	F3B04590
00707 -	-0	60000 0	0231	4 (1100	210	E3C-1	F2C CFLL FOR SAVING TRA	F3804600
00710 -	-0	63400 1	0231	•	270	526.2	E2C CELL FOR SAVING IRR.	F3B04610
00711 -	-0	63400 2	0231	6	580	E3C92	25 COMP NO. ALPEADY IN BLOCK.	F3B04620
00712 -	-0	53400 2	0231	7	LXU	51.704 - 2 100	TO NO. WOS IN RIGCY LESS 100.	F3B04630
00713	3	77634 2	0072	3	IXH	C1 104 9 2 9 - 100	TO NO. WOS IN BLOCK EDIALS O.	F3B04640
00714 -	-3	00000 2	0072	3	IXL	C11049290	WELTE-VILL BLOCK OF 100	F3804650
00715	0	76600 0	0022	3	WKS	147	MULICANITCH WALE IID	F3B04660
00716	0	53400 1	0217	0	LXA	MICON 1	DE COMPLIED INCTO. ON TO 2.	F3B04670
00717	0	70000 1	0263	7 CIT01	CPY	C18+1	25 COMPILED INSING ON IF 30	F3804680
00720	1	77777 1	.0072	1	IXI	C1102,1,-1	MOTTING OF CIR DUEEED	E3804600
00721	1	00001 2	0072	2 CITO2	TXI	CI T03,2,1	WRITING OF CID BUFFER	E3004030
00722	3	00001 2	0071	7 CITO3	TXH	CIT01+2+1	FINISHED WHEN IND IS U.	F3004700
00723	0	53400 1	0217	4 CITO4	LXA	M1CON+4,1	ROUTINE TO PLACE 4 WORDS	F3004710
00724	0	50000 0	0217	1	CLA	M1CON+1	OF COMPILED INSTR IN CIB	F 3BU4 72U
00725	0	62100 0	0072	6	STA	CI 705	BUFFER OF 100 WORDS.	F3804730
00726	0	50000 4	0000	0 CIT05	CLA	0 • 4	IRC CONTAINS 25 COMP LOC OF	F 3B04 740
00727	0	62100 0	0073	0	STA	CITO6	CALLING SEQ LESS 1.	F3B04750
00730	O	50000 0	0000	O CITO6	CLA		INSTR ADDRESS SEQUENTIALLY	F3B04760
00731	Ó	60100 2	0263	7	STO	CIB+2	M1CW + M1CW+1 + M1CW+2	F3804770
00732	0	50000 0	0072	6	CLA	CITO5	AND MICW+3.	F3B04780
00732	õ	40000 0	0217	1	ADD	M1CON+1	·	F3B04 7 90
00733	õ	62100 0	0072	6	STA	CITO5		F3B04800
00735	1	77777 2	0072	6	TXI	CIT07,2,-1		F3B04810
00133	2	00001 1	00.72	6 CITO7	TIX	CIT05.1.1	IRA LOADED WITH 4.	F3B04820
00130	-0	63400 2	0231	7	SXD	BBOX • 2	25 COMPL NO. WORDS ALREADY IN BLOCK.	F3B04830
00746	^	54000 0	0221	4	LDO	F1C	RESTORE MQ. IRA. IRB.	F3B04840
00/40	U	20000 0	0231	7	204			

00741 -0	53400 1	02315		LXD	E2C•1	IRA GIVES AIL REC POSITION. IRB GIVES DO REC POSITION. RETURN TO TSX ADDR PLUS 5. TEST IF FORTRAN FCN DEFINED IN MIDDLE OF PROGRAM, BY FIRST INSTR WORD ALL ONES. RETURN TO NEXT INSTR. OF MAIN PROGRAM. FORTRAN FUNCTION IN MIDDLE OF PROGRAM WORD ALL IS COMPARED HIGH TO AC WITH ALL AIL INSTRUCTIONS		F3B04850
00742 -0	53400 2	02316		LXD	E3C,2	IRB GIVES DO REC POSITION.		F3B04860
00743 0	02000 4	00005		TRA	5 • 4	RETURN TO TSX ADDR PLUS 5.		F3B04870
00744 0	50000 1	02327	ERR2	CLA	AILol	TEST IF FORTRAN FON DEFINED IN MIDDLE OF		F3B04880
00745 0	34000 0	02211		CAS	M1CON+17	PROGRAM, BY FIRST INSTR WORD ALL ONES.		F3B04890
00746 0	02000 4	00001		TRA	1,4	RETURN TO NEXT INSTR. OF MAIN PROGRAM.		F3B04900
60747 0	07400 4	00004		TSX	494	FORTRAN FUNCTION IN MIDDLE OF PROGRAM		F3B04910
00750 0	07400 4	00004	ERROR3	TSX	494	WORD ALL IS COMPARED HIGH TO AC WITH ALL	15	F3B04920
	•				COMPILATION OF	AIL INSTRUCTIONS		F3B04930
00751 0	07400 4	00744	M12000	TSX	ERR294	TEST 1ST AIL WORD ALL ONES.		F3B04940
00752 0	62200 0	02310		STD	MIALFN	SAVE FMLA NO. 1ST INSTR ARITH BLOCK.		F3B04950
00753 -0	12000 0	01070	M12005	TMI	M13000	MINUS MEANS OPEN SUBROUTINE.		F3B04960
00754 0	53400 4	02174		LXA	M1CON+4,4	COMPILE AIL INST BY		F3B04970
00755 0	50000 1	02327	M12010	CLA	AIL+1	MOVING 4 WORDS OF INSTR		F3B04980
00756 0	60100 4	02326		STO	M1CW+494	INTO COMPILED WORD BUFFER.		F3B04990
00757 1	77777 1	00760		IXT	M12020 • 1 • - 1	• •		F3B05000
00760 2	00001 4	00755	M12020	TIX	M12010+4+1	•		F3B05010
00761 0	50000 0	02325	M12021	CLA	M1CW+3	TEST IF TAGGED INSTR. BITS 24-26.		F3B05020
00762 -0	32000 0	02207	M12022	ANA	M1CON+15	1,2 OR 3 GIVEN IN TAG. ONE		F3B05030
00763 0	10000 0	00767		TZE	M12030	DIM TAGS NOT CHANGED.		F3B05040
00764 -0	76000 0	00143		MSE	99	SENSE LIGHT 3 ON IF NO		F3B05050
00765 0	07400 4	01016		TSX	M12500,4	ENTRIES IN EDITED CHANGE		F3B05060
00766 0	76000 0	00143		PSE	99	TAG TABLE.		F3B05070
00767 0	07400 4	00707	M12030	TSX	CIT00,4	TO CIT COMPILING IF TAG UNCHANGED.		F3B05080
00770 0	00000 0	02322		HTR	MICW	CALLING SEQ FOR LOCATIONS		F3B05090
00771 0	00000 0	02323		HTR	M1CW+1	OF 4 COMPILED WORDS.		F3B05100
00772 0	00000 0	02324		HTR	M1CW+2			F3805110
00773 0	00000 0	02325		HTR	M1CW+3			F3B05120
00774 -0	75400 1	00000	M12035	PXD	0 • 1	TEST IF END OF CUR AIL REC		F3B05130
00775 0	34000 0	02305		CAS	MIALWN	BY COMPARING CURRENT AIL WD		F3B05140
00776 0	02000 0	01001		TRA	M12040	POSITION WITH TOTAL AIL		F3805150
00777 0	07400 4	00341		TSX	M10210+4	REC WORD COUNT.		F3B05160
01000 0	07400 4	00004		TSX	4 • 4	NO OF WORDS OF AIL REC NOT A MULTIPLE OF	4	F3B05170
01001 0	50000 1	02327	M12040	CLA	AIL+1	NEXT AIL INST SAME BLOCK AS		F3B05180
01002 -0	32000 0	02205		ANA	M1CON+13	PREVIOUS ONE + +077777000000 •		F3B05190
01003 0	34000 0	02310		CAS	MIALFN			F3B05200
01004 0	02000 0	01010		TRA	M12050	NEXT AIL FMLA NO. GR THAN PREV.		F3B05210
01005 0	76100 0	00000		NOP				F3B05220
01006 0	50000 1	02327		CLA	AIL:1	TEST IF OPEN SRTN. IF NOT.		F3B05230
01007 0	02000 0	00753		TRA	M12005	COMPILE AIL INSTR		F3B05240
01010 -0	76000 0	00142	M12050	MSE	98	END OF DO FILE IF LIGHT 2 ON.		F3B05250
01011 0	02000 0	00630		TRA	M11015	TO CMP AIL AND DO FMLA NOS.		F3B05260
01012 0	76000 0	00142		PSE	98			F3B05270
01013 3	00001 2	00751		TXH	M12000,2,1	IN THE MAIN MERGE IF IRB		F3B05280
01014 -3	00000 2	00751		TXL	M12000 + 2 + 0	ANY VALUE EXCEPT 1.		F3B05290
01015 0	02000 0	00576		TRA	PAT14	TO TEST FOR FORTRAN FCN.		F3B05300
					CHANGE TAG TAB	LE SEARCH		F3B05310
01016 0	5000Ò 0	02325	M12500	CLA	M1CW+3	SYMBOLIC TAG IN BINARY BITS		F3B05320
01017 0	62100 0	02303		STA	TAGBOX	24-35 4TH WD COMPILED INSTR.		F3B05330
01020 -0	63400 4	02302		SXD	CBOX•4	IRC HAS TSX RTN ADDR TO M12030.		F3B05340
01021 -0	53400 4	02275	M12503	LXD	CHTGE1,4			F3B05350
01022 0	50000 4	05741		CLA	CHTG 4	CMP INT FMLA NO CUR AIL INSTR		F3B05360
01023 0	34000 0	02310		CAS	MIALFN	WITH CUR CHTG TABLE BLOCK.		F3B05370
01024 0	02000 0	01027		TRA	M12510	RETURN TO NEXT INSTR. OF MAIN PROGRAM- FORTRAN FUNCTION IN MIDDLE OF PROGRAM WORD ALL IS COMPARED HIGH TO AC WITH ALL AIL INSTRUCTIONS TEST 1ST AIL WORD ALL ONES. SAVE FMLA NO. 1ST INSTR ARITH BLOCK. MINUS MEANS OPEN SUBROUTINE. COMPILE AIL INST BY MOVING 4 WORDS OF INSTR INTO COMPILED WORD BUFFER. TEST IF TAGGED INSTR, BITS 24-26. 1.2 OR 3 GIVEN IN TAG. ONE DIM TAGS NOT CHANGED. SENSE LIGHT 3 ON IF NO ENTRIES IN EDITED CHANGE TAG TABLE. TO CIT COMPILING IF TAG UNCHANGED. CALLING SEQ FOR LOCATIONS OF 4 COMPILED WORDS. TEST IF END OF CUR AIL REC BY COMPARING CURRENT AIL WD POSITION WITH TOTAL AIL REC WORD COUNT. NO OF WORDS OF AIL REC NOT A MULTIPLE OF NEXT AIL INST SAME BLOCK AS PREVIOUS ONE. +0777777000000. NEXT AIL FMLA NO. GR THAN PREV. TEST IF OPEN SRIN. IF NOT. COMPILE AIL INSTR END OF DO FILE IF LIGHT 2 ON. TO CMP AIL AND DO FMLA NOS. IN THE MAIN MERGE IF IRB ANY VALUE EXCEPT 1. TO TEST FOR FORTRAN FCN. LE SEARCH SYMBOLIC TAG IN BINARY BITS 24-35 4TH WD COMPILED INSTR. IRC HAS TSX RIN ADDR TO M12030. CMP INT FMLA NO CUR AIL INSTR WITH CUR CHTG TABLE BLOCK. CHTG FMLA NO GREATER AIL NO.		F3805380

01025 0 02000	0 01031	TRA M12515	CHTG FMLA NO EQUALS AIL NO.	F3B05390
01025 0 02000	01046	TRA M12540	CHTG FMLA NO LESS AIL NO.	F3B05400
01027 -0 53400	4 02302 M12510	LXD CBOX+4	IRC HAS TSX RTN ADDR TO	F3B05410
01027 -0 33400	4 00002	TRA 2.44	AIL COMP AT M12030.	F3B05420
01031 0 50000	0000E	CLA CHTGE2	SEARCH CUR CHTG BLOCK FOR	F3B05430
01031 0 50000	0 01044	STD M12530+1	CUR AIL INST TAG	F3B05440
01032 0 02200	4 01044 4 01034 M12520	TXI M12520+1.41		F3B05450
01034 0 50000	4 05741	CLA CHTG+4	GET TAG1 FROM 2ND WORD OF	F3B05460
01034 0 30000	00022	LRS 18	CHTG TABLE	F3B05470
01035 0 10300	0 00022	SUB TAGBOX	TAG BOX HAS ALL TAG IN ADDR.	F3B05480
01030 0 40200	0 02303	TNZ M12530	CHTG TAG AND AIL TAG DIFFERENT.	F3B05490
01040 0 76300	0 01043	115 18	CHTG AND AIL TAGS SAME, SO	F3B05500
01040 0 76300	0 00022	STA MICW+3	REPLACE CUR AIL TAG WITH CHTG T2.	F3B05510
01041 0 02100	0 02323	TRA M12510	RTN VIA TSX TO AIL COMP AT M12030.	F3B05520
01042 0 02000	0 01027 6 01066 M13530	TYI M12530+1.41	TRC ENDS CHTG BLOCK SAME FMLA NO.	F3805530
01043 1 77777	4 01044 M12550	TVU M12520-4	DECREMENT IS CHIGE? VALUE.	F3805540
01044 3 00000	9 01033	TDA M12510	DECKEMENT 15 CHICEE TREESE	F3B05550
01045 0 02000	0 01027 0 02274 M12640	CLA CUTGE2	UPDATE CHIGEL CHIGEL HAS IRC	F3B05560
01046 0 50000	0 02276 M12540	CEA CHIGEZ	VALUE TO GET 1ST ENTRY OF	F3805570
01047 0 60100	0 02275	SIO CHIGEI	CHIC BLOCK ALL SAME EMIA NO.	F3B05580
01050 0 40200	0 02274	SUB CHIGE	CUTCL HAS BE COMP NO MOS CUTC TARLE.	F3805500
01051 -0 10000	0 01054	INZ M12550	CENCE LIGHT 2 ON MEANS CHIC	F3003330
01052 0 76000	0 00143	PSE 99	SENSE LIGHT 3 ON MEANS CHIC	F3005000
01053 0 02000	0 01027	IRA MIZSIU	COMPUTE NEW CUTGES CHIGES IS	E3805610
01054 -0 53400	4 02275 M12550	LXD CHIGE194	COMPOSE NEW CHIGEZO CHIGEZ IS	F3005620
01055 0 50000	4 05741	CLA CHIG94	DECREMENT VALUE IN MIZOSU TO	F3005640
01056 0 60100	0 02277	STO CHIGFN	INDICATE LAST ENTRY IN CHIC	F3803640
01057 1 77776	4 01060 M12555	TXI M12555+1,4,-2	BLOCK ALL WITH SAME FMLA NO.	F3805650
01060 -0 75400	4 00000	PXD 0.4	THIS UBVIATES SEARCHING ENTIRE	F3805660
01061 0 40200	0 02274	SUB CHTGL	CHIG TABLE WHEN TESTING AIL	F3805670
01062 0 10000	0 01066	TZE M12570	INSIR FOR CHANGING IIS TAGE	F3805680
01063 0 50000	4 05741	CLA CHTG 4	ROUTINE ENTERED WHEN ALL	F3805690
01064 0 40200	0 02277	SUB CHTGFN	FMLA NO. GREATER THAN CHIE	F3805700
01065 0 10000	0 01057	TZE M12555	FMLA; SO MUST UPDATE CHIGET	F3805/10
01066 -0 63400	4 02276 M12570	SXD CHTGE2,4	AND CHIGEZ TO GET NEXT ENTRY	F3805720
01067 0 02000	0 01021	TRA M12503	TO CMP AIL AND CHIG FMLA NOS.	F3805730
		EXPONENTIAL OPE	N SUBROUTINES	F3805740
01070 0 76000	0 00002 M13000	CHS	CHANGE MINUS SIGN OF	F 3B05 750
01071 0 60100	0 02322	STO M1CW	INT FMLA NO, IF ANY, TO MICW	F 3B05760
01072 1 77777	1 01073	TXI M13005+1+-1	DECREASE COUNT IN IRI	F3805770
01073 0 50000	1 02327 M13005	CLA AIL+1	SECOND WORD	F3B05780
01074 0 40200	0 02237	SUB M1ABC+18	FIXED EXP, FLOATING EXP OR SPECIAL OP	F3805790
01075 0 10000	0 01101	TZE M13020	FIXED EXPONENT	F3805800
01076 0 40000	0 02240	ADD M1ABC+19	TEST FOR FLOATING POINT	F3B05810
01077 0 10000	0 01102	TZE M13020+1	IF NEITHER, THEN NOT EXPONENTIAL	F3B05820
01100 1 77777	1 01304	TXI M13500,1,-1	DETERMINATION OF SPECIAL OP.	F3B05830
01101 0 76000	0 00144 M13020	PSE 100	CHTG FMLA NO EGUALS AIL NO. CHTG FMLA NO LESS AIL NO. IRC HAS TSX RTN ADDR TO AIL COMP AT M12030. SEARCH CUR CHTG BLOCK FOR CUR AIL INST TAG GET TAG1 FROM 2ND WORD OF CHTG TABLE. TAG BOX HAS AIL TAG IN ADDR. CHTG TABLE. TAG BOX HAS AIL TAG DIFFERENT. CHTG AND AIL TAGS SAME, SO REPLACE CUR AIL TAG WITH CHTG T2. RTN VIA TSX TO AIL COMP AT M12030. IRC ENDS CHTG BLOCK SAME FMLA NO. DECREMENT IS CHTGE1 HAS IRC VALUE TO GET 1ST ENTRY OF CHTG BLOCK ALL SAME FMLA NO. CHTGL HAS 2S COMP NO WDS CHTG TABLE. SENSE LIGHT 3 ON MEANS CHTG EMPTY OR EXHAUSTED. COMPUTE NEW CHTGE2. CHTGE2 IS DECREMENT VALUE IN M12530 TO INDICATE LAST ENTRY IN CHTG BLOCK ALL WITH SAME FMLA NO. THIS OBVIATES SEARCHING ENTIRE CHTG TABLE WHEN TESTING AIL INSTR FOR CHANGING ITS TAG. ROUTINE ENTERED WHEN AIL FMLA NO. GREATER THAN CHTG FMLA, SO MUST UPDATE CHTGE1 AND CHTGE2 TO GET NEXT ENTRY. TO CMP AIL AND CHTG FMLA NOS. N SUBROUTINES CHANGE MINUS SIGN OF INT FMLA NO, IF ANY, TO M1CW DECREASE COUNT IN IR1 SECOND WORD FIXED EXP, FLOATING EXP OR SPECIAL OP FIXED EXPONENT TEST FOR FLOATING EXP OR SPECIAL OP FIXED EXP, FLOATING EXP OR SPECIAL OP FIXED EXPONENT TEST FOR FLOATING POINT IF NEITHER, THEN NOT EXPONENTIAL DETERMINATION OF SPECIAL OP. FIXED EXP. LITE 100 ON 3RD WORD INFO ON LOC OF ARG TO M1CW+2 REL ADD AND TAG, IF ANY. TO M1CW+3 DECREASE BY 1 TEST FOR END OF CUR AIL REC	F3B05840
01102 1 77777	1 01103	TXI M13020+2:1:-1	3RD WORD	F3B05850
01103 0 50000	1 02327	CLA AIL+1	INFO ON LOC OF ARG	F3B05860
01104 0 60100	0 02324	STO M1CW+2	TO M1CW+2	F3B05870
01105 1 77777	1 01106 M13025	TXI M13025+1+1+-1		F3B05880
01106 0 50000	1 02327	CLA AIL 1	REL ADD AND TAG, IF ANY.	F3B05890
01107 0 60100	0 02325	STO M1CW+3	TO M1CW+3	F3B05900
01110 1 77777	1 01111 M13030	TXI M13030+1.11	DECREASE BY 1	F3B05910
01111 -0 75400	1 00000	PXD 0+1	TEST FOR END OF CUR AIL REC	F3B05920
01111 -0 12400				

01112	0	34000	٥	02305		CAS	M1ALWN	2S COMPLIMENT OF NUMBER OF WORDS OF CURRENT AIL RECORD BACK TO READ NEXT AIL RECORD NO OF WORDS OF AIL REC NOT A MULTIPLE OF 4	F3B05930
01113	ŏ	02000	Ö	01116		TRA	M13040	OF CURRENT AIL RECORD	F3805940
01114	0	07400	4	00341		TSX	M10210+4	BACK TO READ NEXT AIL RECORD	F3B05930
01115	0	07400	4	00004		TSX	494	NO OF WORDS OF ALL REC NOT A MULTIPLE OF 4	F3005900
01116	1	77776	3	01117	M13040	TXI	M13040+1:1:-2	DECREASE BY 2	E3005000
01117	0	50000	0	02324		CLA	M1CW+2	LOCATION OF ARGUMENT	L3002300
01120	0	40200	0	02241		SUB	M1ABC+20	SUBTRACT A PLUS SIGN	F3005990
01121	0	10000	0	01212		TZE	M13200	ARG IN AC	F3B06000
01122	0	50000	0	02324		CLA	M1CW+2	LOCATION AGAIN	L3806010
01123	0	40200	0	02237		SUB	M1ABC+18	SUBTRACT ASTERISK	F3806020
01124	0	10000	0	01230		TZE	M13250	ARG IN MQ	F3B06030
							ARGUMENT STORED	FIXED OR FLOATING	E3804040
01125	0	50000	1	02327		CLA	AIL+1	VALUE OF EXPONENTS SED WORD	F3B06050
01126	0	40200	0	02176		SUB	M1CON+6	OF SECOND AIL ENIRT	F3806070
01127	-0	10000	0	01135		TNZ	M13060	EXP GREATER THAN I	F3B06010
01130	0	50000	0	02215		CLA	MIABC	EXP EQUALS 19 COMPILE A CLA INSTR	F3806090
01131	0	60100	0	02323		510	M1CW+I	THEN OF CENCE LIGHT. AD HIST	F3B06100
01132	-0	76000	0	00144		MSE	100	COUNT FOR NEXT ALL ENTRY. AND	F3806110
01133	0	76100	0	00000		NOP		TOANGEED BACK FOR CUTG SEARCH	F3806120
01134	1	77776	1	00761		IXI	M12021919-2	EXPONENT CREATER THAN 1	F3B06130
01135	0	50000	.0	02325	M13060	CLA	MICW+3	TEST IS TAG NEEDS CHANGING	F3806140
01136	-0	32000	0	02207		ANA	MICON+IS	ADG TAGGED	F3B06150
01137	0	10000	0	01143		125	M13070	END OF CHIC TARIF	F3B06160
01140	-0	76000	0	00143		MOE	413500 - A	TRANSFER BACK TO CHTG TARLE	F3B06170
01141	0	07400	4	01016		15%	M1250094	SEADON	F3B06180
01142	0	76000	0	00143	W12070	TCV	CITOO	COMPLIE FIRST INST	F3B06190
01143	0	07400	4	00707	M13010	154	C110094	LOCATION OF INTERNAL FORMULA NO	F3B06200
01144	0	00000	.0	02322		HIK	MICW MIADC+1	LOCATION OF LDG INSTRUCTION	F3B06210
01145	.0	00000	ò	02210		HID	MICHTS	LOCATION OF ARGUMENT	F3B06220
01146	Ü	00000	Ô	02324		HIN	MICH+2	TAG	F3B06230
01147	0	00000	0	02325	M12080	CIA	ATLAT	VALUE OF EXPONENT	F3B06240
01150	0	50000	Ţ	02321	MISUOU	CLA	M1CON+7	SUBTRACT 2	F3B06250
01151	0	40200	Ô	02111		300 T7E	M12115	EXPONENT FOULL TO 2	F3806260
01152	0	10000	Ŏ	01175		STD	CCOUNT	FXP-2 TO COUNT	F3B06270
01153	Ô	62200	Ŏ	02311		MCE	100	ARG FIXED OR FLOATING	F3B06280
01154	-0	16000	٥	01244		TDA	M13300	FLOATING ARGUMENT	F3B06290
01122	Ö	02000	Ď.	01200		DSE	100	Sent site lines late	F3B06300
01120	U	10000	U	00144			FIXED ARGUMENT.	STORED. IN AC. INMQ. EXP GREATER THAN 2	F3B06310
A1157	Δ.	07400	4	00707	M13090	TSX	C1T00•4	COMPILE INSTRUCTIONS FOR FIXED ARG.	F3B06320
01127	0	00000	ח	02170	1123070	HTR	M1CON	FOR THE EXPON.	F3B06330
01160	ŏ	00000	ň	02217		HTR	M1ABC+2	ENTIAL ROUTINE. THE LOCATION	F3B06340
01101	0	00000	0	02221		HTR	M1CW+2	OF THE ARGUMENT HAS ALREADY	F3B06350
01162	٥	00000	ň	02325		HTR	M1CW+3	BEEN CONSIDERED, AND TH LOOP	F3B06360
01164	ŏ	07400	4	00707		TSX	CI T00 • 4	WILL COMPILE N-2 PAIRS OF	F3B06370
01165	٥	00000	n	02170		HTR	M1CON	MPY AND LRS INSTRUCTIONS	F3B06380
01165	õ	00000	õ	02220		HTR	M1ABC+3		F3B06390
01167	0	00000	0	02170		HTR	MICON	OF CURRENT AIL RECORD BACK TO READ NEXT AIL RECORD NO OF WORDS OF AIL REC NOT A MULTIPLE OF 4 DECREASE BY 2 LOCATION OF ARGUMENT SUBTRACT A PLUS SIGN ARG IN AC LOCATION AGAIN SUBTRACT ASTERISK ARG IN MQ FIXED OR FLOATING VALUE OF EXPONENT; 3RD WORD OF SECOND AIL ENTRY EXP GREATER THAN 1 EXP EQUALS 1; COMPILE A CLA INSTR AND PLACE IT IN OP CODE TURN OFF SENSE LIGHT; ADJUST COUNT FOR NEXT AIL ENTRY; AND TRANSFER BACK FOR CHTG SEARCH EXPONENT GREATER THAN 1 TEST IF TAG NEEDS CHANGING ARG TAGGED END OF CHTG TABLE TRANSFER BACK TO CHTG TABLE SEARCH COMPILE FIRST INST LOCATION OF INTERNAL FORMULA NO LOCATION OF ARGUMENT TAG VALUE OF EXPONENT SUBTRACT 2 EXPONENT EQUAL TO 2 EXP-2 TO COUNT ARG FIXED OR FLOATING FLOATING ARGUMENT STORED, IN AC, INMQ, EXP GREATER THAN 2 COMPILE INSTRUCTIONS FOR FIXED ARG. FOR THE EXPON. ENTIAL ROUTINE. THE LOCATION OF THE ARGUMENT HAS ALREADY BEEN CONSIDERED, AND TH LOOP WILL COMPILE N-2 PAIRS OF MPY AND LRS INSTRUCTIONS LOAD EXPONENT -2 IN IR 4 AND COMPILE N-2 PAIRS OF MPY AND LRS INSTRUCTIONS RESTORE CCOUNT DURING LOOP ARG FIXED OR FLOATING	F3B06400
01170	0	00000	Ô	02203		HTR	M1CON+11	· · · · · · · · · · · · · · · · · · ·	F3B06410
01171	-0	53400	4	02311		LXD	CCOUNT . 4	LOAD EXPONENT -2 IN IR 4 AND	F3B06420
01172	ĭ	77777	4	01173	M13110	TXI	M13110+1,4,-1	COMPILE N-2 PAIRS OF INSTRUCTIONS	F3B06430
01172	-0	63400	4	02311		SXD	CCOUNT . 4	RESTORE CCOUNT DURING LOOP	F3B06440
01174	3	00000	4	01157		TXH	M13090+4		F3B06450
01175	-0	76000	0	00144	M13115	MSE	100	ARG FIXED OR FLOATING	F3B06460
911.0	-		-						

									20004420
01176	. 0	02000	0	01276		TRA	M13330	FLOATING ARGUMENT	F3806470
01177	. 0	07400	4	00707		TSX	CITOO,4	COMPILE LAST 2 INST FOR	F3806480
01200	0	00000	0	02170		HTR	M1CON	EXP GREATER OR EQUAL 2. IN WHICH	F3806490
01201	Ð	00000	0	02217		HTR	M1ABC+2	CASE WE MUST COMPILE ONLY ONE	F3806500
01202	0	00000	0	02324		HTR	M1CW+2	PAIR OF INSTRUCTIONS	F3806510
01203	0	00000	0	02325		HTR	M1CW+3		F3B06520
01204	0	07400	4	00707		TSX	CITO0,4		F3B06530
01205	Ŏ	00000	0	02170		HTR	M1CON ·	•	F3B06540
01206	ō	00000	0	02221		HTR	M1ABC+4		F3B06550
01207	ŏ	00000	õ	02170		HTR	M1CON		F3806560
01210	ŏ	00000	ŏ	02202		HTR	M1CON+10		F3B06570
01210	ĭ	77776	1	00774		TXI	M12035 • 1 • - 2	BACK TO CONTINUE AIL ROUTINES	F3B06580
AISTI	•		•	00114			ARG IN AC. FIXE	D OR FLOATING	F3B06590
01212		50000	1	A2227	M13200	CLA	ATI AT	TEST TO SEE IF EXPONENT	F3B06600
01212	Ŏ	40000	7	02321	M13200	CLIB	M1 CON+6	FOHALS 14 IF YESA TRANSFER	F3B06610
01213		40200	Ü	02170		300 TN7	M12210	BACK TO DICK UP NEXT RECORD	F3806620
01214	-0	10000	Ü	01220		HAZ	100	IE NO. CONTINUE TO	F3806630
01215	-0	76000	0	00144		MSE	100	CONDITE BOODED INSTRUCTIONS	E3806640
01216	0	76100	0	00000		NOP		COMPILE PROPER INSTRUCTIONS	F380646
01217	1	77776	1	00774		TXI	M12035,1,-2	CUD COULTED THAN 5 A	F3806630
01220	0	50000	0	02242	M13210	CLA	M1ABC+21	EXP GREATER THAN 190	F3806660
01221	0	60100	0	02324		STO	M1CW+2	STORE VALUE OF EXPONENT IN INSTR. AREA	F3806670
01222	0	07400	4	00707		TSX	CI T00 • 4	COMPILE FIRST INST	F3806680
01223	0	00000	0	02322		HTR	M1CW	CALLING SEQUENCE FOR ARG-	F3806690
01224	0	00000	0	02222		HTR	M1ABC+5	UMENT IN ACC, COMPILE	F3B06700
01225	õ	00000	Ō	02324		HTR	M1CW+2	A STO INSTRUCTION, AND CONTINUE	F3B06710
01226	ŏ	00000	Õ	02325		HTR	M1CW+3	AS IF IT WERE STORED INITIALLY	F3B06720
01227	ŏ	02000	ñ	01143		TRA	M13070		F3B06 7 30
VIZZI		02000	•	01143			ARG IN MO. FIXE	D OR FLOATING	F3B06740
A122A	Δ	50000	1	02327	M13250	CLA	AIL+1	VALUE OF EXPONENT AND TEST TO	F3B06750
01230	ŏ	40200	ń	02176	MIJEJU	SUB	M1CON+6	SEE IF EXPONENT = 1. IF IT IS	F3B06760
01231	- 0	10000	Š	01250		TNZ	M13265	FQUAL TO ONE. WE KNOW THAT	F3B06770
01232	-0	27400	0	01250		TSY	CITOOAA	THE VALUE OF THE	F3B06780
01233	0	07400	4	00101		UTD	MICW	ARGUMENT IS RETAINED AS THE	F3806790
01234	Ō	00000	Ô	02322		HTD	MIADCT13	ANGWER.	F3806800
01235	0	00000	U	02232		HIK	MIADCTIS	ANGRERE	F3B06810
01236	0	00000	0	02170		HIR	MICON		F3B06820
01237	0	00000	0	02170		HIK	MICON		E3806830
01240	0	07400	4	00707		15%	C110094		F2006030
01241	0	00000	0	02170		HTR	MICON		F3000040
01242	0	00000	0	02223		HTR	M1ABC+6		F3004310
01243	0	00000	0	02170		HTR	M1CON		F3806860
01244	Ö	00000	0	02204		HTR	M1CON+12		F3806870
01245	-0	76000	0	00144		MSE	100	TURN OF SENSE LIGHT	F 3806880
01246	0	76100	0	00000		NOP			F3B06890
01247	1	77776	1	00774		IXI	M12035 • 1 • - 2	BACK TO AIL ROUTINE	F3B06900
01250	ō	50000	ō	02242	M13265	CLA	M1ABC+21	EXP GREATER 1,	F3B06910
01250	ŏ	60100	õ	02324		STO	M1CW+2	PLACE 010000000000IN LOCATION POS.	F3B06920
01251	0	07400	4	00707		TSX	CIT00+4	COMPILE FIRST INST	F3B06930
01727	0	00000	7	00101		HTR	MICW	ZERO	F3B06940
01253	Ŏ	00000	0	02324		HTP	M1ARC+7	COMPILE A STO INSTRUCTION	F3B06950
01254	0	00000	Ŏ	02224		AID OTL	M1CW#2	AND THEN TRANSFER TO DETER-	F3806960
01255	0	00000	Ü	02324		DIK	M1CW+2	MINE THE VALUE OF THE	E3B06970
01256	0	00000	Û	02325		TOA	MISOSO	EYDONENT.	F3806980
01257	0	02000	0	01150		. IKA	MIDUOU	TODED. IN AC. IN MO. EXP GREATER 2	F3806990
							CLICALING ARGS ST	FLOATING ARGUMENT COMPILE LAST 2 INST FOR EXP GREATER OR EQUAL 2; IN WHICH CASE WE MUST COMPILE ONLY ONE PAIR OF INSTRUCTIONS BACK TO CONTINUE AIL ROUTINES D OR FLOATING TEST TO SEE IF EXPONENT EQUALS 1; IF YES; TRANSFER BACK TO PICK UP NEXT RECORD IF NO, CONTINUE TO COMPILE PROPER INSTRUCTIONS EXP GREATER THAN 1;0 STORE VALUE OF EXPONENT IN INSTR. AREA COMPILE FIRST INST CALLING SEQUENCE FOR ARG— UMENT IN ACC, COMPILE A STO INSTRUCTION, AND CONTINUE AS IF IT WERE STORED INITIALLY D OR FLOATING VALUE OF EXPONENT AND TEST TO SEE IF EXPONENT = 1; IF IT IS EQUAL TO ONE; WE KNOW THAT THE VALUE OF THE ARGUMENT IS RETAINED AS THE ANSWER. TURN OF SENSE LIGHT BACK TO AIL ROUTINE EXP GREATER 1; PLACE 0100000000000001 LOCATION POS. COMPILE FIRST INST ZERO COMPILE A STQ INSTRUCTION AND THEN TRANSFER TO DETER— MINE THE VALUE OF THE EXPONENT. FORED; IN AC, IN MQ, EXP GREATER 2	F3807000
01260	0	07400	4	00707	M13300	ISX	C110094		. 2001000

	_					LITD	M3 CON	INST COMPILING LOOP FOR FLOATING	F3B07010
01261		00000					M1CON M1ABC+8	ARGUMENTA COMPILE A EMP	F3B07020
01262		00000					M1CW+2	INSTRUCTION. AND A LRS INSTR-	F3B07030
01263	-	00000					MICWIZ	HCTION.	F3B07040
01264		00000					M1CW+3	ociion.	F3B07050
01265		07400 4			•		CITOO,4	ZERO. FOR INTERNAL EMIA. NO.	F3B07060
01266	_	00000					MICON	ZEROF FOR INTERNAL THEM NOT	F3B07070
01267		00000					M1ABC+3	DI ACE AS INDECDEMENT OF	F3B07080
01270		00000					MICON	DELATIVE ADDRESS.	F3B07090
01271		00000					M1CON+12	RELATIVE ADDRESSO	F3B07100
01272	-0	53400 4	023	311			CCOUNT • 4	INST COMPILING LOOP FOR FLOATING ARGUMENT, COMPILE A FMP INSTRUCTION, AND A LRS INSTR- UCTION. ZERO, FOR INTERNAL FMLA. NO. PLACE 43 INDECREMENT OF RELATIVE ADDRESS. LOAD N-2 IN IR 4 DECREASE COUNT BY 1 REPLACE CCOUNT BACK TO COMILE N-2 PRS. OF INST. COMPILE LAST INST FOR EXP GREATER OR EQUAL 2 BACK TO STANDARD AIL ROUTINE SPECIAL OPS. LOAD COUNT OF 22 IN IR 4 COMPARE SPECIAL OP. FUNCTION NAME IS THIRD WORD OF 1ST AIL ENTRY NEW ROUTINE HANDLING ADD. SUBROUTINES	F3B07110
					M13320	TXI	M13320+1,4,-1	DECREASE COUNT BY I	F3B07120
		63400 4					CCOUNT 94	REPLACE COUNT	F3B07130
01275	3	00000 4	012	260	_		M13300•4	BACK TO COMILE N=2 PRS. OF INST.	F3B07140
01276	0	07400 4	00	707	M13330	TSX	CIT00+4	COMPILE LASI INSI FOR	F3B07150
01277	0	00000	02	170			M1CON	EXP GREATER OR EQUAL 2	F3B07160
01300	0	00000	022	225			M1ABC+8	•	F3B07170
01301	0	00000	023	324			M1CW+2	•	F3B07180
01302	0	00000	023	325			M1CW+3	THE TO STANDARD ATT DOUTTNE	F3B07190
01303	1	77776	00	774		TXI	M12035 • 1 • - 2	BACK TO STANDARD AIL ROUTINE	F3B07200
01304	-0	53400 4	022	203	M13500	LXD	M1CON+11,4	SPECIAL OPS. LOAD COUNT OF 22 IN IR 4	F3B07210
01305	0	50000	023	327			AIL+1	COMPARE SPECIAL OP FUNCTION NAME	F3B07210
01306	0	34000 4	022	273	M13505	CAS	M1D+18,4	IS THIRD WORD OF 1ST AIL ENTRY	F3007220
01307	0	02000	070	71					F3B07230 F3B07240
01310		02000 0					M13510	INCONSTANT AREA	
01311	0	02000	070	771			OP1-2	NEW ROUTINE HANDLING ADD. SUBROUTINES	F3B07250
01312	-0	63400 4	023	312	M13510	SXD	CCELL.4	IRC TO CCELL	F3B07260
01313	1	77776	013	314		TXI	M13510+2,1,-2	DECREASE CONTENTS OF IR 1 BY 2	F3B07270
01314	-0	75400	000	000		PXD	0.1	END OF AIL REC	F3B07280
		34000 (CAS	MIALWN	2 IS COMP. OF NO. OF WORDS OF CUR-	F3B07290
01316		02000				TRA	M13520	KENT ALE KECOKO	F3B07300
01317	0	07400 4	003	341		TSX	M10210+4	TO GET NEXT AIL RECORD	F3B07310
01320	0	07400 4	000	004			494	NO OF WORDS OF AIL REC NOT A MULTIPLE OF 4	F3B07320
01321	-0	53400 4	023	312	M13520	LXD	CCELL 4		F3B07330
01322	ō	02000 4	013	345	M13525	TRA	M13525+19,4	CHOOSE APPROPRIATE SPECIAL OP BRANCH	F3B07340
01323		77776					M13550 • 1 • - 2	(XABS)	F3B07350
		77776				TXI	M13550 • 1 • - 2	(ABS)	F3B07360
01325		77776				TXI	M13600 + 1 + - 2	(XINT)	F3B07370
01326		77776					M13595 + 1 + - 2	(INT)	F3807380
01327		77776					M13600+1+-2	(XFIX)	F3B07390
01330	_	77776				TXI	M13900+1+-2	(FLOAT)	F3B07400
01331	_	77776				IXT	M13680+1+-2	(XMOD)	F3B07410
01332		77776				TXI	M13681+1+-2	(MOD)	F3B07420
01333		77776				TXI	M13681+1+-2	(XSIGN)	F3B07430
01334		77776				TXI	M13681,1,-2	(SIGN)	F3B07440
01335		77776				TXI	M13681.12	(XMAXO)	F3B07450
01336		77776					M13681,1,-2	(MAX1 0	F3807460
01337		77776					M13680 + 1 + - 2	(XMAX1B)	F3B07470
01340		77776					M13680+1+-2	(MAXOB)	F3B07480
01341		77776					M13681+1+-2	(XMINOB)	F3B07490
01341		77776					M13681+1+-2	(MINIBO)	F3B07500
01342		77776					M13680,1,-2	(XMINIB)	F3B07510
01344	_	77776					M13680+1+-2	CHOOSE APPROPRIATE SPECIAL OP BRANCH (XABS) (ABS) (XINT) (INT) (XINT) (XFIX) (FLOAT) (XMOD) (MOD) (XSIGN) (SIGN) (SIGN) (XMAXO) (MAX1 O (XMAX1B) (MAX0B) (XMINOB) (XMINOB) (MINOBO) INFO ON LOC OF ARG, CHECK FOR ALL 1S	F3B07520
01344	•						XABS. ABS BRANCE	1	F3B07530
01245	Λ	07400	V 03	154	M13550	TS¥	ERROR1+1+4	INFO ON LOC OF ARG, CHECK FOR ALL 15	F3B07540
01345	v	01400 4	· VZ.	- 70	1122220	. 57			

					-			70 416442	E2007550
01346	0	60100	0	02324		STO	MICW+2	10 MICW+2	F3007550
01347	1	77777	1	01350		TXI	M13555 • 1 • - 1	INCREMENT IN TO	F3007570
01350	0	50000	1	02327	M13555	CLA	AIL,1	REL ADD AND TAGS IF ANTS	F3007510
01351	0	60100	0	02325		STO	M1CW+3	10 MICW+3	F3007500
01352	0	50000	0	02324		CLA	M1CW+2	LUCATION OF ARGUMENT	F3807400
01353	0	40200	0	02241		SUB	M1ABC+20	SUBTRACT PLUS SIGN	F3007610
01354	0	10000	0	01373		TZE	M13575	ARG IN AC	E3807610
01355	0	50000	0	02324	*	CLA	M1CW+2	LOCATION OF ARGUMENT	F3007620
01356	0	40200	0	02237		SUB	MIABC+18	UNE ASIERISK	F3007630
01357	0	10000	0	01401		TZE	M13580	ARG IN MQ	F3807640
							ARG STORED	DELASTICE ADDRESS AND TAC ATE ANYS	F3807650
01360	0	50000	0	02325		CLA	M1CW+3	RELATIVE ADDRESS AND TAG LIF ANTI	F3807660
01361	-0	32000	0	02207		ANA	M1CON+15	ARG TAGGED	F3807670
01362	0	10000	0	01366		TZE	M13570	ARG NOT LAGGED	F3807680
01363	-0	76000	0	00143		MSE	99	END OF CHTG TABLE	F3807690
01364	0	07400	4	01016		TSX	M12500,4	CHANGE TAG TABLE SEARCH	F3807700
01365	0	76000	0	00143		PSE	99		F380//10
01366	. 0	07400	4	00707	M13570	TSX	CI T00,4	COMPILE FIRST INST	F3B07720
01367	0	00000	0	02322		HTR	M1CW	INTERNAL FMLA NO.	F3B07730
01370	0	00000	0	02215		HTR	MIABC	COMPILE ACLA INSTRUCTION	F3B07740
01371	0	00000	0	02324		HTR	M1CW+2		F3B07750
01372	0	00000	0	02325		HTR	M1CW+3	•	F3B07760
	_	••••					ARG IN AC+(STOR	ED)	F3B07770
01373	0	07400	4	00707	M13575	TSX	CITOO+4	COMPILE FIRST (SECOND) INST	F3B07780
01374	.0	00000	ò	02170		HTR	M1CON	ZERO	F3B07790
01375	ō	00000	ŏ	02226		HTR	M1ABC+9	SSP	F3B07800
01376	ŏ	00000	ŏ	02170		HTR	M1CON	ZERO	F3B07810
01377	ň	00000	ñ	02170		HTR	M1CON	ZERO	F3B07820
01400	ĭ	77777	ĭ	00774		TXI	M12035,1,-1	AIL ROUTINE	F3807830
01400	•		•	••••			ARG IN MQ		F3B07840
01/01	Λ	50000	٥	02242	M13580	CLA	M1ABC+21	01000000000	F3B07850
01401	ň	60100	ñ	02324		STO	M1CW+2	LOCATION OF ARG	F3B07860
01402	0	07400	ĭ	00707		TSX	CIT00+4	COMPILE FIRST INST	F3B07870
01405	ň	00000	7	02322		HTR	M1CW	INT. FMLA NO.	F3B07880
01405	. 0	00000	ŏ	02224		HTR	M1ABC+7	STQ	F3B07890.
01405	ň	00000	ň	02324		HTR	M1CW+2		F3B07900
01400	õ	00000	ñ	02325		HTR	M1CW+3		F3B07910
01401	ŏ	02000	ň	01366		TRA	M13570	COMPILE INSTRUCTION AS IF STORED	F3B07920
01410	U	52500	•	31500		,	XFIX. XINT. INT	BRANCH	F3B07930
A1411	^	74000	^	00144	M12595	PSF	100	FLOATING PT	F3B07940
01411	0	07400	4	02156	M13600	TSX	ERROR1+1+4	INFO ON LOC OF ARG	F3B07950
01412	0	60100	7	02324		STO	M1CW+2	TO M1CW+2	F3B07960
01413	·	22222	۲	02324		TYI	M13605+1+=1		F3807970
01414	*	11111	†	01413	M13605	CLA	AILAI	REL ADD AND TAG. IF ANY.	F3B07980
01415	Õ	50000		02321	M13003	STO	M1CW+3	TO M1CW+3	F3B07990
01416	Õ	90100	ŏ	02323		CLA	M1CW+2	LOCATION OF ARG.	F3808000
01417	Ü	50000	Ō	02324		CLIP	MIARC+20	PLUS SIGN	F3B08010
01420	0	40200	Ŏ	02241		775	M13630	ARG IN AC	F3B08020
01421	0	10000	Ŏ	01440		CI A	M1CW+2	LOCATION OF ARGA	F3808030
01422	0	>0000	0	02324		CLA	MI ARCA18	ASTERICK	F3808040
01423	0	40200	0	02237		3UD	M12670	ARG IN MO	F3B08050
01424	0	10000	0	01203		125	ADC CTOPED	UIA 14 LIA	F3808060
			_			ci.	MICHIA	TO MICW+2 INCREMENT IR 1. REL ADD AND TAG, IF ANY, TO MICW+3 LOCATION OF ARGUMENT SUBTRACT PLUS SIGN ARG IN AC LOCATION OF ARGUMENT ONE ASTERISK ARG IN MQ RELATIVE ADDRESS AND TAG (IF ANY) ARG TAGGED, ARG NOT TAGGED END OF CHTG TABLE CHANGE TAG TABLE SEARCH COMPILE FIRST INST INTERNAL FMLA NO. COMPILE FIRST (SECOND) INST ZERO SSP ZERO AIL ROUTINE O10000000000 LOCATION OF ARG COMPILE FIRST INST INT. FMLA NO. STQ COMPILE INSTRUCTION AS IF STORED BRANCH FLOATING PT INFO ON LOC OF ARG TO MICW+2 REL ADD AND TAG, IF ANY, TO MICW+3 LOCATION OF ARG. PLUS SIGN ARG IN AC LOCATION OF ARG. ASTERISK ARG IN MQ 4TH WORD ARG TAGGED	F3808070
01425	0	50000	0	02325		CLA	MICON+15	ADG TAGGED	F3808080
01426	-0	32000	0	02207		ANA	MICONTID	NIG INDOLD	. 2000000

01427	0	10000	0	01433		TZE	M13620	NOT TAGGED END OF CHTG TABLE CHTG TABLE SEARCH	F3B08090
		76000				MSE		END OF CHTG TABLE	F3B08100
		07400				TSX	M12500#4	CHTG TABLE SEARCH	F3B08110
01432	Ø	76000	0	00143		PSE	99	:	F3B08120
01433	0	07400	4	00707	M13620	TSX	CIT00+4	COMPILE FIRST INST	F3B08130
01434		00000				HTR	M1CW	INT. FMLA NO. IF ANY.	F3B08140
01435	0	00000	0	02215		HTR	MIABC	CLA INSTRUCTION	F3B08150
01436	0	00000	0	02324		HTR	M1CW+2	•	F3B08160
01437	0	00000	0	02325		HTR	M1CW+3		F3B08170
							ARG IN ACCSTORED	CHTG TABLE SEARCH COMPILE FIRST INST INT. FMLA NO. IF ANY. CLA INSTRUCTION COMPILE FIRST (SECOND) INST	F3808180 F3808190
01440	0	07400	4	00707	M13630	TSX	CI T00,4	COMPILE FIRST (SECOND) INST	F3B08190
01441		00000					M1 CON	ZERO	F3B08210
		00000					M1ABC+10	UFA OP CODE	F3B08210
01443		00000					M1ABC+22	COMPILE FIRST (SECOND) INST ZERO UFA OP CODE 06000000000 ZERO TEST FOR FLOATING PT•	F3B08230
01444		00000					MICON	TECT FOR ELOATING DT.	F3B08240
		76000					100	IEST FOR FLOATING FT	F3B08250
01446		02000					M13640	TAIT	F3B08260
01447	0	02000	0	01475		TRA	M13660	STORED. IN AC. IN MO	F3B08270
	_					T.C.V	AFIAS AINIS ARG	STORED, IN AC, IN MQ	F3B08280
01450					M13640		CIT00+4	75DO	F3B08290
01451		00000					M1CON M1ABC+3	LPS INSTRUCTION	F3B08300
01452		00000					M1CON	7FR0	F3B08310
01453		00000					M1CON	2FRO	F3B08320
01454		00000 07400					CIT00,4	· ·	F3B08330
		00000					M1CON		F3B08340
01456		00000					M1ABC+11	ANA	F3B08350
01457 01460	_	00000	-				M1ABC+22	06000000000 ZERO TEST FOR FLOATING PT. XINT INT STORED. IN AC. IN MQ COMPILE 4 INST ZERO LRS INSTRUCTION ZERO ZERO ANA 0600000000000 +0000010000000 LLS	F3B08360
01461		00000					M1CON+6		F3B08370
	-	07400		-			CIT00,4	+000001000000	F3B08380
01463		00000				HTR	M1CON	•	F3B08390
01464	ŏ	00000	ō	02223		HTR	M1ABC+6	LLS	F3B08400
01465		00000				HTR	M1CON		F3B08410
01466		00000				HTR	MICON	•	F3B08420
		07400				TSX	CI T00 • 4	•	F3B08430
		00000				HTR	M1CON		F3B08440
01471	0	00000	0	02221		HTR	M1ABC+4	ALS	F3B08450
01472						HTR	M1CON		F3808460
01473		00000				HTR	M1CON+11	+000022000000	F3B08470
01474	1	77777	1	00774		IXI	M12035 + 1 + - 1	CONTINUE WITH ROUTINE	F3B08480
							INT. ARG STORED	IN AC, IN MQ	F3808490
01475	0	07400	4	00707	M13660	TSX	CIT00,4	COMPILE 1 INST	F3B08500
01476	0	00000	0	02170		HTR	M1CON	540	F3B08510 F3B08520
01477	-	00000	_				M1ABC+12	FAD	F3B08530
01500		00000					M1ABC+22	06000000000	F3B08540
01501	_	00000					M1CON	CONTINUE WITH ATL POUTINE	F3B08550
01502	1	77777	1	00774		IXI	M12035 + 1 + -1	CONTINUE WITH MIL ROUTING	F3B08560
			_			CL 4	XFIX, XINT, INT	COMPILE FIRST INST	F3B08570
01503					WT3610	CLA	M1ABC+21	0100000000	F3B08580
01504		60100					M1CW+2	A140444444	F3B08590
01505		07400					CI T00.9 4	INT. FMIA NO.	F3B08600
01506		00000					M1CW	STO	F3B08610
01507	_	00000					M1ABC+7 M1CW+2	V (4	F3B08620
01510	Ü	00000	U	02324		HIK	MICHTE	+000022000000 CONTINUE WITH ROUTINE IN AC: IN MQ COMPILE 1 INST FAD 060000000000 ZERO CONTINUE WITH AIL ROUTINE ARG IN MQ COMPILE FIRST INST 0100000000000 INT: FMLA NO: STQ	

								•	F3B08630
	01511	. 0	00000	02325		HTR	M1CW+3	TRANSFER TO CONTINUE AS STORED	E3B08640
	01512	0	02000 0	01433	3	TRA	M13620	TINISTICALS	F3000040
							ALL MULIVARIALE	FUNCTIONS	F3000030
	01513	0	76000 0	00144	M13680	PSE	100	PLACE SENSE SWO ON FUR FIAPIO	F3000000
	01514	0	50000 1	02325	M13681	CLA	AIL-2+1_	TRANSFER TO CONTINUE AS STORED FUNCTIONS PLACE SENSE SW. ON FOR FIXPT. TEST INTERNAL FORMULA NO37777777777. SHOULD BE AT LEAST TWO ARGUMENTS FOR MULTIVARIATE FCNS.	F3000010
	01515	0	40200 0	02211		SUB	M1CON+17	-377177717171 SHOULD BE AT	F3808680
	01516	0	10000 0 50000 1	0215	•	TZE	ERROR1	LEAST TWO ARGUMENTS FOR MULTIVARIATE FCNS.	F3808690
	01517	0	50000 1	02327	•	CLA	AIL+1	LOCATION OF ARGUMENT	F3808700
	01520	0	60100 C	02324	DETA	STO	AIL+1 M1CW+2	LOCATION OF ARGUMENT	F3B08710
	01521	1	77777 1	01522	2	IXT	M13685 • 1 • -1	ADJUST COUNT IN IR 1.	F3B08720
	01522	0	50000 1	02327	MI3685	CLA	AIL+1	REL ADD + TAG OF	F3B08730
	01523	0	60100 0	02325	•	STO	M1CW+3 M13690+1+-1	FIRST ARG TO M1CW+3	F3B08740
	01524	1	77777 1	01525	•	IXT	M13690,1,-1	LEAST TWO ARGUMENTS FOR MULTIVARIATE FCNS. LOCATION OF ARGUMENT LOCATION OF ARGUMENT ADJUST COUNT IN IR 1. REL ADD + TAG OF FIRST ARG TO MICW+3 END OF AIL REC 2S COMPLIMENT OF NO. OF WORDS IN AIL RECORD BRING IN NEXT AIL REC.	F3B08750
	01525	^	75400 1	00000	M1240A	PXD	0+1	END OF AIL REC	F3B08760
	01526	0	34000 0	02309	,	CAS	M1ALWN	2S COMPLIMENT OF NO. OF WORDS	F3B08770
	01527	0	02000 0	01532	2	TRA	M13700	IN AIL RECORD	F3B08780
	01530	0	07400 4	00341		TSX	M10210,4	BRING IN NEXT AIL REC.	F3B08790
	01531	0	07400 4	00004	•	TSX	M1ALWN M13700 M10210+4 4+4 M1CW+3	NO OF WORDS OF AIL REC NOT A MULTIPLE OF 4	F3B08800
	01532	Õ	50000 0	02325	M13700	CLA	M1CW+3	REL. ADDRESS + TAG. IF ANY	F3B08810
		-0	32000 0	02207	,	ANA	M1CON+15	+00000002000	F3B08820
	01534	õ	10000	01540)	TZE	M13710	FIRST ARG TAGGED	F3B08830
	01535	-0	76000 0	00143	3	MSE	99	END OF CHTG TABLE	F3B08840
	01536	ñ	67400 4	01016		TSX	M12500 • 4	CHTG TABLE SEARCH	F3B08850
		ñ	76000	0014	í	PSE	99		F3B08860
	01540	õ	50000 0	02201	M13710	CLA	M1CON+9	SIGN. MODULO OR MAX. MIN	F3B08870
	01541	ŏ	34000 0	02212	, ,,,	CAS	CCELL	COMPARE TO 10	F3B08880
	01543	ă	76100	00000		NOP			F3B08890
	01543	ŏ	19100 0	01706	•	TRA	M13770	MAX OR MIN BRANCH	F3B08900
	01544	ŏ	50000 0	02176		CLA	M1CON+5	SIGN OR MODULO, +000012000000	F3B08910
	01545	ň	34000 0	0221	,	CAS	CCELL		F3B08920
	01546	~	74100 0	02312		NOP			F3B08930
	01547	.0	19100 0	02122	5	TRA	M13950	SIGN BRANCH	F3B08940
		-0	76000 0	0014		MSF	100	XMOD OR MOD	F3B08950
		-0	75000 0	0160/		TRA	M13735	FLOATING PT MOD BRANCH	F3B08960
	01551	U	02000	0100-	•	INA	YMOD BRANCH		F3B08970
			07400 4	0070	,	TSX	CITOOAA	COMPILE 3 INST. FOR MULTIVARIATE	F3B08980
	01552	v	07400 4	00101		HTD	MICW	XMOD	F3B08990
	01553	v	00000	02324		HTP	M1 ARC+13	CLM	F3809000
		0	00000	02236		HTD	MICON		F3809010
	01555	Û	000000	0217		HTP	MICON		F3B09020
	01556	Ų.	07/00 4	0070	, ,	TCY	CIT00+4		F3B09030
	01557	U	00000	0010		HTD	MICON		F3B09040
	01560	· v	00000	02170		HTD	M1 ARC+1	t-00	F3B09050
		Û	00000	02216		HIR	MINDUTI MICHAD	Δ	F3B09060
	01562	0	00000	02324	<u>}</u>	MIR	MICHTE		F3B09070
	01563	0	00000	0232	2	HIK	門よし界でつ		F3B09080
	01564	0	07400 4	0070		158	41 CON		F3B09090
	01565	0	00000	02170)	HIK	MICON	116	F3B09100
	01566	0	00000	02223	3	HTR	MT VRC+0	LL3	F3B09100
	01567	0	00000	02170) ,	HTR	MICON		F3B09110
	01570	0	00000	02170		HTR	MICON	TERO. TO DERIACE 1.C.	F3B09120
	01571	0	50000 0	02170		CLA	MICON	LERUS IU KEPLACE 1930	F3D0713U
	01572	0	60100 0	02322	2	STO	MICW	INTERNAL PMLA NU	F3B09140
	01573	0	50000 0	02233		CLA	MIABC+14	UVP OF CODE	F3809150
,	01574	0	60100 0	02323	,	STO	MICM+1	BRING IN NEXT AIL REC. NO OF WORDS OF AIL REC NOT A MULTIPLE OF 4 REL. ADDRESS + TAG, IF ANY +00000002000 FIRST ARG TAGGED END OF CHTG TABLE CHTG TABLE SEARCH SIGN, MODULO OR MAX, MIN COMPARE TO 10 MAX OR MIN BRANCH SIGN OR MODULO, +000012000000 SIGN BRANCH XMOD OR MOD FLOATING PT., MOD BRANCH COMPILE 3 INST, FOR MULTIVARIATE XMOD. CLM LDQ A LLS ZERO, TO REPLACE 1,5. INTERNAL FMLA NO. DVP OP CODE	F3B09160

01575	1	77776	01576		TXI	M13725 +1 +-2	DECREASE IR 1 BY 2 CHECK FOR END OF CALLING SEQUENCE SYMBOLIC ADDRESS OF 2ND ARGUM. REL ADD AND TAG OF SECOND ARG TO MICW+3 BACK TO END OF AIL ROUTINE COMPILE FIRST INST CLS A SAVE FIRST ARG IN 3RD WORD SAVE REL ADD AND TAG IN 4WD CHECK THAT NEXT WORD IS LAST ARG. SYMBOLIC AD OF 2ND ARG. REL ADD AND TAG OF SECOND ARG TO MICW+3 TEST IF TAGGED END OF CHTG TABLE BACK TO AIL ROUTINE COMPILE LAST 9 INSTS FDP B STQ 01000000000000 UFA 060000000000000 FAD 0600000000000000	F3B09170
01576			02156	M13725	TSX	ERROR1+1+4	CHECK FOR END OF CALLING SEQUENCE	F3B09180 F3B09190
01577	-	60100 (02324		510	M1CW+2	SYMBOLIC ADDRESS OF ZND ARGOMS	F3809200
01600	1	77777	01601		TXI	M13/30919-1	DEL AND AND TAG OF	F3B09210
01601			02327	M13730	CLA	AILI	SECOND ARC TO MICHAR	F3809220
01602		60100	02325		510	MICW+3	SECOND ARG TO MICHTS	F3B09230
01603	-1	77777	00762		TXI	M12022,1,-1	BACK TO END OF ATE ROUTINE	F3B09240
						MOD BRANCH	COMPANY EXPERT THEY	F3B09250
01604			+ 00707	M13735	TSX	CI T00+4	COMPILE FIRST INST	F3B09260
01605		00000	02322		HTR	MICW	CLC A	F3B09270
01606		00000	02250		HTK	MIABC+21	CLS A	F3B09280
01607		00000	02324		HIK	MICW+2		F3B09290
01610		00000	02325		HIK	MICW+3	CAME EIDET ADC IN 3DD WOOD	F3B09300
01611		50000	02324		CLA	MICW+2	SAVE FIRST AND IN SKU WORD	F3B09310
		60100	02320		510	3WU	CAME DEL ADO AND TAG IN AND	F3B09320
01613		50000	02325		CLA	MICW+3	SAVE REL ADD AND TAG IN 4ND	F3B09330
01614		60100	02321		510	4WU		F3B09340
01615	1	77776	01616		IXI	M13/41919-2	CUECK THAT NEXT WORD IS LAST ADG.	F3B09350
01616			02156	M13741	15%	ERROR1+1,4	CMECK IMAI NEXT WORD 13 EAST ARGO	F3B09360
01617		60100	02324		310	MICW+2	SIMBOLIC AD OF ZND ANGE	F3B09370
01620	1.	77777	01621		IXI	M13/43919-1	DEL ADD AND TAG OF	F3B09380
01621			02327	M13745	CLA	AIL 91	SECOND ARG TO MICW+3	F3B09390
01622		60100	02325		310	MICONTIE	TEST IE TAGGED	F3B09400
	-0	32000	02201		ANA	MICONTID	SECOND ARG TAGGED	F3B09410
01624		10000	01630		125	M13/33	END OF CHIC TABLE	F3B09420
		76000	00143		MOE	99 91.2500 - 4	RACK TO ALL POUTINE	F3B09430
01626	-	07400	01016		124	M1250094	BACK TO ATE ROOTINE	F3B09440
01627	0	76000	00143	W10755	PSE	99 CITO0-4	COMPTLE LAST O INSTS	F3B09450
01630			+ 00/07	M13/55	158	CIT00,4	COMPTLE EAST 9 THSTS	F3B09460
01631		00000	02170		HIK	MICON	EDD B	F3B09470
01632		00000	02234		HIK	MIADCTID	· FUP B	F3B09480
01633	-	00000	02324		HIK	MICWTZ		F3B09490
01634	_	00000	02325		TCV	CITOO A		F3B09500
01635		07400	1 00/0/		HTD	MICON	•	F3B09510
01636	-	00000	02170		HIR	MI ARCH7	STO	F3B09520
01637	_	00000	02224	÷	HIK	MIADC+1	0100000000	F3809530
01640		00000	02242		HIK	MIADCTZI	0100000000	F3B09540
01641		00000	02170		TCV	CITOO		F3B09550
01642	_	07400	1 00/0/		UTD	M1.CON		F3809560
01643		00000	02110		HTD	MIARC	CIA	F3B09570
01644		00000) 02215		HIR	MIABC + 21	0100000000	F3B09580
01645		00000) 02242		HTD	MICON	0100000000	F3B09590
01646	_	00000	J 02110		TSY	CIIOOAA		F3B09600
01647	-	07400	1 00101		UTD	MICON		F3B09610
01650		00000	1 02210		HTR	M1 ARC+10	UFA	F3B09620
01651		00000	02262		HTR	M1 ABC+22	06000000000	F3B09630
01652		00000) 02242 1 02170		HTP	MICON		F3B09640
01653		07400	. 00707		TSX	CI T00 • 4	· ·	F3B09650
01654		00000	1 00101 1 02170		HTR	MICON		F3B09660
01655		00000	7 02110		HTP	M1 ABC+12	FAD	F3B09670
01656		00000) U2272		HTP	M1 ABC+22	06000000000	F3B09680
01657		00000	. VEETS		HTR	MICON		F3B09690
01660			. 00707		TSY	CTT00+4		F3B09700
01661	U	07400	+ 00101		137	C1.007-		

01662	0	00000	0	02170		HTR	M1CON		-	F3B09710
01663	0	00000	0	02222		HTR	M1ABC+5	STO		F3B09720
01664	0	00000	0	02242		HTR	M1ABC+21	06000000000		F3B09730
01665	0	00000	0	02170		HTR	MICON			F3B09740
01666	0	07400	4	00707		TSX	CI T00 • 4			F3B09750
01667	0	00000	0	02170		HTR	M1CON			F3B09760
01670	0	00000	0	02216		HTR	M1ABC+1	LDQ		F3B09770
01671	0	00000	0	02242		HTR	M1ABC+21	06000000000		F3B09780
01672	0	00000	0	02170		HTR	M1CON			F3B09790
01673	0	07400	4	00707		TSX	CIT00+4			F3B09800
01674	0	00000	0	02170		HTR	M1CON			F3B09810
01675	0	00000	0	02225		HTR	M1ABC+8	FMP		F3B09820
01676	0	00000	0	02324		HTR	M1CW+2	В		F3B09830
01677	0	00000	o	02325		HTR	M1CW+3			F3B09840
01700	0	07400	4	00707		TSX	CITOO,4			F3B09850
01701	Ó	00000	0	02170		HTR	M1CON			F3B09860
01702	٥	00000	0	02231		HTR	M1ABC+12	FAD		F3B09870
01703	Õ	00000	Õ	02320		HTR	3WD	A		F3B09880
01704	ñ	00000	ŏ	02321		HTR	4WD			F3B09890
01705	ĭ	77777	ĭ	00774		TXI	M12035 • 1 • - 1	AIL ROUTINE		F3B09900
01102	•		•	••••			MAX. MIN BRANCH			F3B09910
01704	Λ	50000	0	02200	M13770	CLA	M1 CON+8	+000004000000		F3B09920
01700	٥	34000	ň	02200	1413110	CAS	CCELL	FOR MIN BRANCH		F3B09930
01707	ŏ	74100	ň	00000		NOP	-			F3B09940
01710	٥	19100	ž	02017		TRA	M13855	MIN BRANCH		F3B09950
01711	U	02000	U	02017		1117	ALL MAX ROUTINES	5		F3809960
	^	07400		00707		TSX	C1 T00+4	COMPILE FIRST INST		F3809970
01712	0.	00000	7	00101		HTR	MICW			F3809980
01/13	0	00000	0	02322		HTR	MIARC	CLA A1		F3B09990
01714	0	00000	Š	02215		HTR	M1CW+2	SYMBOLIC ADDRESS OF FIRST ARGUMENT		F3B10000
01112	0	00000	2	02324		HTR	M1CW+3	RELATIVE ADDRESS + TAG+ IF ANY		F3B10010
01/16	v	50000	ŭ	02323	M12780	CLA	ATL AT	FND MARK . IF ANY . TO ENDT . THIS WILL		F3B10020
01/1/	. 0	50000	Ť	02321	P(13700	STO	ENDT	BE ALL 15 IF END.		F3B10030
01720	,	7777	Ÿ	02313		TYI	M13785 41 4=2	DE MEE 10 11 EMPT		F3B10040
01721	ī	11116	Ţ	01122	M12705	2 7 7	A11 -1	SYMBOLIC ADDRESS OF ITH ARGA I FOLIAL	2 N	F3810050
01/22	Û	50000	Ť	02334	MISTOS	SIO	WICAT	TO MICW+2	- > • • • • • • • • • • • • • • • • • •	F3B10050
01723	U	60100	Ū	02324	,	310 TV1	M12700 - 1 1	10 Michie		F3B10070
01724	1	77177	1	01725	W12700	1 × 1	M13790919-1	REL ADD AND TAG OF		F3B10070
01725	0	50000	Ť	02321	MT2130	STO	MICHTS	1TH APG TO MICW+3		F3810000
01726	0	90100	Û	02325		310	M1CON+16	TEST IS ITHARGUMENT TAGGED		E3810100
01727	-0	32000	Ð	02207		ANA	MICONTID	ITH ADG NOT TAGGED		F3B10100
01730	0	10000	0	01/34		125	M13600	END OF CHIC TARLE		E3010110
01731	-0	76000	0	00143		MOE	99 413500-6	CUTC TARIE SEADCH		F3D10120
01732	0	07400	4	01016		15%	M1250094	CHIG TABLE SEARCH		F3010130
01733	0	76000	0	00143		PSE	99	000004000000		F3D10140
01734	0	50000	0	02200	M13800	CLA	MICON+8	COMPARE FOR MINIMUM PR		L3010370
01735	0	34000	0	02312		CAS	CCELL	COMPAKE FOR MINIMUM BK.		L 2810190
01736	0	76100	0	00000		NOP		MIN DOANGU		L38101\0
01737	0	02000	0	02025		TRA	M13860	MIN DRANCH		L3RT0180
01740	0	07400	4	00707		TSX	CI T00 • 4	COMPILE 3 INSTRUCTIONS FOR		F3B10190
01741	0	00000	0	02170		HTR	MICON	ITH ARG		F 2810500
01742	0	00000	0	02216		HTR	MIABC+1	LDQ		F3B10210
01743	0	00000	0	02324		HTR	M1CW+2	ITH ARGUMENT I=2,N		F3B10220
01744	0	00000	0	02325		HTR	M1CW+3			-3B10230
01745	0	07400	4	00707		TSX	CI T00 • 4	STO 0600000000000 LDQ 0600000000000 FMP B FAD A AIL ROUTINE +000004000000 FOR MIN BRANCH MIN BRANCH SCOMPILE FIRST INST CLA A1 SYMBOLIC ADDRESS OF FIRST ARGUMENT RELATIVE ADDRESS + TAG, IF ANY END MARK, IF ANY, TO ENDT, THIS WILL BE ALL IS IF END. SYMBOLIC ADDRESS OF ITH ARG, I EQUAL TO M1CW+2 REL ADD AND TAG OF ITH ARG TO M1CW+3 TEST IF ITHARGUMENT TAGGED ITH ARG NOT TAGGED END OF CHTG TABLE CHTG TABLE SEARCH 000004000000 COMPARE FOR MINIMUM BR. MIN BRANCH COMPILE 3 INSTRUCTIONS FOR ITH ARG LDQ ITH ARGUMENT I=2,N		F3B10240

01746		0 0000	02170		HTR	M1CON		F3B10250
		0 00000				M1ABC+16	TLQ	F3B10260
		00000				M1ABC+24	+17000000000	F3B10270
		0 00000				M1CON+7	+000002000000	F3B10280
		07400 4				CITOO+4		F3B10290
		0 00000				M1CON		F3B10300
		0 00000				M1ABC	CLA AI	F3B10310
		00000				M1CW+2		F3B10320
		0 00000				M1CW+3		F3B10330
		50000 0				ENDT	I=N	F3B10340
,		40200 0				M1CON+17	-37777777777	F3B10350
• • • • •		10000 0				M13830	LAST ARGUMENT	F3B10360
		77777 1				M13820,1,-1		F3B10370
01762 1 01763 -0	ŗ	75400 1	01103	M12020			END OF AIL REC	F3B10380
				P113620	CAS	MIALWN	25 COMPL. OF NO. OF WORS OF AIL REC	F3B10390
		34000 0				M13780	TO COMPILE INSTR. FOR ALL ARGUMENTS	F3B10400
		02000 0				M10210+4	PACK TO READ NEXT ALL RECORD	F3B10410
		07400 4				494	NO OF WORDS OF AIL REC NOT A MULTIPLE OF 4	F3B10420
		07400 4					NO OF MONDO OF MAR HER HOT M HOLLTON	F3B10430
01770	9 (02000 0	01/1/	W12020	HEE	M13780	TEST FOR FIXED PT AND TURN OFF SW.	F3B10440
01771 -0				MISSSO	MOL	M12035 • 1 • ~ 1	OUT FOR XMAXO, MAXI, XMINO, MINI	F3B10450
		77777 1				CCELL	NO. OF FUNCTION FIXED MAX.	F3B10460
-		50000 0						F3B10470
•		77100 0			ARS	10	TEST FOR FLOATING MAY OR MIN	F3B10480
		76000 0			LBT	H12620	YMAY1. YMINI. FIYED MAY OR MIN	F3B10490
		02000 0				M13630	COMPTLE LAST 2 INSTRUCTIONS	F3B10500
		07400 4				CI T00 • 4	TEST FOR FLOATING MAX OR MIN XMAX1, XMIN1, FIXED MAX OR MIN COMPILE LAST 3 INSTRUCTIONS FOR MAXO, MINO	F3B10510
		0 00000				M1CON	LDC	F3B10520
		00000 0				M1ABC+3	LRS	F3B10530
		00000 0			HIK	M1CON		F3B10540
		00000 0			HIK	M1CON+11	18	F3B10550
		07400 4				CI T00 • 4		F3B10560
		00000 0				M1CON	ORA 06000000000	F3B10570
		00000 0				M1ABC+23	OKA	
02007	0 (00000 0	02243			M1ABC+22	06000000000	F3B10580
02010	0 (00000 0	02170			M1CON		F3B10590
02011	0 (07400 4	00707			CIT00+4		F3B10600
02012	0 (0 00000	02170			MICON		F3B10610
02013	0	00000 0	02231			M1ABC+12	FAD	F3B10620
02014	0 (0 00000	02243			M1ABC+22	06000000000	F3B10630
	0 (0 00000	02170			MICON		F3B10640
	1 '	77777 1	00774		IXT	M12035+1+-1	BACK TO END OF AIL ROUTINE	F3B10650
						ALL MIN ROUTINE	COMPILE FIRST INST	F3B10660
02017	0 (07400 4	00707	M13855	TSX	CIT00+4	COMPILE FIRST INST	F3B10670
02020	0	00000 0	02322		HTR	M1CW		F3B10680
		00000 0			HTR	M1ABC+1	LDQ A1	F3B10690
		00000 0			HTR	M1CW+2	FAD 06000000000 BACK TO END OF AIL ROUTINE COMPILE FIRST INST LDQ A1 TO STORE NEEDED INFORMATION COMPILE 3 INST FOR ITH ARG CLA A2N	F3B10700
· - · - · - ·		00000			HTR	M1CW+3		F3B10710
		02000 0				M13780	TO STORE NEEDED INFORMATION	F3B10720
02025	o i	07400 4	00707	M13860		CIT00.4	COMPILE 3 INST FOR	F3B10730
		00000			HTR	M1CON	ITH ARG	F3B10740
	-	00000				MIABC	CLA A2N	F3B10750
		00000				M1CW+2		F3B10760
		00000				M1CW+3	·	F3B10770
		07400 4				CI T00 • 4		F3B10780
02032	•	U1400 4	55.01					

									F3810700
02033	0	00000	0	02170		HIR	MICON	T 1.0	F2810800
02034	0	00000	0	02235		HTR	MIABC+16	ILU	F3010000
02035	0	00000	0	02245		HTR	MIABC+24	+000002000000	E3010010
02036	0	00000	0	02177		HTR	MICON+7	+17000000000	F3010020
02037	0	07400	4	00707		TSX	CIT00,4		F3D10830
02040	0	00000	0	02170		HTR	MICON		F3810840
02041	0	00000	0	02216		HTR	M1ABC+1	LDQ A2N	F3810850
02042	0	00000	0	02324		HTR	M1CW+2		F3B10860
02043	0	00000	0	02325		HTR	M1CW+3		F3810870
02044	0	50000	0	02313		CLA	ENDT	I = N	F3B10880
02045	0	40200	0	02211		SUB	M1CON+17	-37777777777	F3810890
02046	0	10000	0	02050		TZE	M13880	LAST ARGUMENT	F3B10900
02047	1	77777	1	01763		TXI	M13820 • 1 • ~ 1	TO TEST IF END OF AIL RECORD.	F3B10910
02050	0	07400	4	00707	M13880	TSX	CITOO+4	COMPILE TWO INST	F3B10920
02051	0	00000	0	02170		HTR	M1CON		F3B10930
02052	ō	00000	Õ	02224		HTR	M1ABC+7	STQ	F3B10940
02053	Õ	00000	ō	02242		HTR	M1ABC+21	01000000000	F3B10950
02054	ō	00000	Ŏ	02170		HTR	M1CON		F3B10960
02055	ñ	07400	4	00707		TSX	CIT00+4		F3B10970
02055	ñ	00000	'n	02170		HTR	M1 CON		F3B10980
02050	٥	00000	Ô	02215		HTR	MIABC	CLA	F3B10990
02051	~	00000	Š	02212		HTR	M1 ABC+21	010000000000	F3B11000
02060	0	00000	Š	02242		HTP	MICON	•	F3B11010
02061	0	00000	ŏ	02170		TDA	M12820	TEST SWA 4 AND GO TO VARIOUS ROUTES	F3B11020
02062	U	02000	U	01//1		IKA	ELOAT ROANCH	1201 Say 4 AND GO TO THE COO NOTICE	F3B11030
	_				W12000	TCV	EDDOD1+1-A	TO TEST IF ONLY ONE ARGUMENT	F3B11040
02063	U	07400	4	02150	W13900	134	MICHIE	CYMPOLIC LOCATION OF APRIMENT	F3B11050
02064	0	60100	0	02324		510	M1CW+2	SIMBOLIC ECCATION OF ANGOMENT	F3B11060
02065	1	77777	1	02066		IXI	W13902 \$1 \$-1	DEL ADD AND TAG. IE ANY.	F3B11070
02066	0	50000	1	02327	M13905	CLA	AIL9I	REL ADD AND TAGS IF ANTS	E3011000
02067	0	60100	0	02325		510	MICW+3	IO MICW+3	F3011000
02070	0	50000	0	02324		CLA	MICW+2	Bullo cach	F20111090
02071	0	40200	0	02241		SUB	M1ABC+20	PLUS SIGN	F3011110
02072	0	10000	0	02111		TZE	M13915	ARG IN AC	L2D11110
02073	0	50000	0	02324		CLA	M1CW+2		F3811120
. 02074	0	40200	0	02237		SUB	M1ABC+18	ASTERISK	F3B1113U
02075	0	10000	0	02112		TZE	M13920	ARG IN MQ	F3811140
							ARG STORED		F3B11150
02076	0	50000	0	02325		CLA	M1CW+3	RELATIVE ADDRESS AND TAG, IF ANY	F3B11160
02077	-0	32000	0	02207		ANA	M1CON+15	ARG TAGGED	F3B11170
02100	0	10000	0	02104		TZE	M13910	ARG NOT TAGGED	F3B11180
02101	-0	76000	0	00143		MSE	99		F3B11190
02102	ō	07400	4	01016		TSX	M12500+4	CHTG TABLE SEARCH	F3B11200
02102	Ď	76000	À	00143		PSE	99		F3B11210
02103	Õ	07400	4	00707	M13910	TSX	CI T00+4		F3B11220
02104	ñ	00000	n	02322	,,,,,,,	HTR	M1CW		F3B11230
02105	0	00000	~	02215		HTR	M1 ABC	CLA A	F3B11240
02100	0	00000	õ	02227		HTR	M1CW+2		F3B11250
02107	0	00000	0	02324		HTD	M1CW+3		F3B11260
02110	U	00000	U	02323		W.	ARG IN AC ISTOR	TLQ +000002000000 +170000000000 LDQ A2N I=N -37777777777 LAST ARGUMENT TO TEST IF END OF AIL RECORD. COMPILE TWO INST STQ 0100000000000 CLA 0100000000000 TEST SW, 4 AND GO TO VARIOUS ROUTES TO TEST IF ONLY ONE ARGUMENT SYMBOLIC LOCATION OF ARGUMENT REL ADD AND TAG, IF ANY, TO M1CW+3 PLUS SIGN ARG IN AC ASTERISK ARG IN MQ RELATIVE ADDRESS AND TAG, IF ANY ARG TAGGED CHTG TABLE SEARCH CLA A ED) TO COMILE 3 INSTR. AS MAX OR MIN 0100000000000	F3B11270
	^	02000	_	01777	M13015	TDA	M13830+6	TO COMILE 3 INSTR. AS MAX OR MIN	F3B11280
02111	Ų	02000	Ü	OTVI	WIDAID	HXH	ADG IN MO	TO COURSE & SHOULD NO DAY OF DAY	F3B11290
	_		_	00016	41.0000	C1 A	MINDCASI	0100000000	F3B11300
02112	0	50000	0	02242	WT3950	CLA	MIADCTZI	TO COMILE 3 INSTR. AS MAX OR MIN 010000000000 SYMBOLIC LOCATION	F3B11310
02113	0	60100	0	02324		510	M1CW+2 CITOO+4	SIMBOLIC LOCATION	F3B11310
02114	0	07400	4	00707		ISX	C1100+4		L 3011350

								·	F3B11330
	02115		00000 0				M1CW	CTO	F3B11340
	02116	0	00000 0	02224			M1ABC+7	STQ	F3B11350
	02117		00000 0			• • • • •	M1CW+2		F3B11360
	02120	0.	00000 0	02325			M1CW+3	TO TOWN TO A CLA INCTRUCTION	F3B11370
	02121	0	02000 0	02104		TRA	M13910	TO COMPILE A CLA INSTRUCTION	F3B11380
							XSIGN. SIGN	BRANCH	
	02122	0	07400 4	00707	M13950	TSX	CIT00,4		F3B11390
	02123		00000 0				M1CW		F3B11400
	02124	0	00000 0	02215		HTR	M1ABC	CLA A1	F3B11410
	02125	-	00000 0			HTR	M1CW+2		F3B11420
	02126		00000 0			HTR	M1CW+3		F3B11430
	02127		77776 1				M13955 +1 +-2	DECREASE IR 1 BY -2	F3B11440
	02130				M13955	TSX	ERROR1+1,4	TEST IF ONLY 2 ARGUMENTS	F3B11450
	02131		60100 0		(123333	STO	M1CW+2	SYMBOLIC ADDRESS.	F3B11460
			77777 1				M13960+1+-1		F3B11470
	02132	, T	50000 1	02133	M12060			REL ADD AND TAG. IF ANY. TO	F3B11480
	02133				MIJJOO	STO	M1CW+3	M1CW+3	F3B11490
	02134		60100 0			_	M1CON+15	ARG TAGGED	F3B11500
			32000 0				M13965	ARG NOT TAGGED	F3B11510
	02136		10000 0			MSE		Alto Hot Theory	F3B11520
			76000 0				M12500•4	BACK TO CHTG TABLE SEARCH	F3B11530
	02140		07400 4			,		DACK TO CITTLE TRIBEL SERVICE	F3B11540
	02141	0	76000 0	00143		PSE		· · · · · · · · · · · · · · · · · · ·	F3B11550
	02142				W13965		CIT00+4		F3B11560
	02143		00000 0				MICON	100.42	F3B11570
	02144	_	00000 0			• • •	M1ABC+1	LDQ A2	F3B11580
	02145	_	00000 0				M1CW+2	• •	F3B11590
	02146		00000 0				M1CW+3		F3B11600
-	02147	_	07400 4				CIT00,4		F3B11610
	02150	0	00000 0	02170			MICON		F3B11620
	02151	0	00000 0	02223			MIABC+6	LLS	F3B11630
	02152	0	00000 0	02170			M1CON		F3B11640
	02153	0	00000 0	02170		HTR	MICON		
	02154	1	77777 1	00774			M12035,1,-1	AIL ROUTINE	F3B11650
	02155	0	07400 4	00004	ERROR1	TSX	494	A MULTI VARIATE FN. HAS ONLY 1 VARIABLE	F3B11660
	02156	0	50000 1	02325	ERR1	CLA	AIL-2:1	INT. FORMULA NO. OF ARGURMENT	F3B11670
	02157		40200 0			SUB	M1CON+17	-37777777777	F3B11680
			10000 0			TNZ	ERROR2	SHOULD BE ALL 15, FOR PARTICULAR ROUTINE	F3B11690
	02161	ő	50000 1	02327		CLA	AIL+1	LOCATION OF ARGUMENT	F3B11700
	02162	ō	02000 4	00001		TRA	1,4	BACK TO CONTINUE	F3B11710
	02163	Ô	07400 4	00004	ERROR2	TSX	4 • 4	A UNIVARIATE OR 2VAR. ROUTINE NOT CORRECT	F3B11720
	02164	+00	0000000	005	MIECTR	DEC	5,6,0,0		F3B11730
			00000000						
			00000000						
			00000000						
			00000000		M1CON	DEC	0.1.2.3.4.10	OB17,1B17,2B17,4B17,8B17,17B17,18B17,35B17	F3B11740
			00000000						
	02171	100	00000000	0002			•		
	02172	100	0000000	002					
			0000000						
			00012000						
			00001000						•
			00002000					•	
	02200	+00	0 00 04000	000					
	02201	+01	00010000	,000					

										The state of the s		
		+000021000000										
		+000022000000										
		+000043000000										
		+077777000000		OCI	77777	000000	• • • • • • • • • • • • • • • • • • • •	,2000,	370,77	7777777777,1000	001,312,314	F3B11750
		+000000077777										
		+000000002000										
		+000000000370										
		-37777777777										
		+000001000001										
		+000000000312										
		+000000000314						. .				
	02215	234321000000	MIABC	BCD	7CLA0	OOLDQOO	OYPMO	OOLRSO	DOALSO	00ST0000LLS000		F3B11760
	02216	432450000000										
	02217	444770000000										
•	02220	435162000000										
	.02221	214362000000										
	02222	626346000000										
	02223	434362000000				.				<i>,</i>		
	02224	626350000000		BCD	75TQ00	OOFMPOO	05SP0	OOUFACC	OANAO	OOFADOOOCLMOOO		F3B11770
	02225	264447000000										
	02226	626247000000										
	02227	642621000000										
	02230							,				
	02231	262124000000										
	02232	234344000000										
	02233	246547000000		BCD	7DVP00	OFDPOO	OTLOO	OORTBOO	0000	0000+0000+0000		F3B11780
	02234	262447000000										
	02235	634350000000										
	02236	516322000000									•	
	02237	540000000 000										
	02240	005400000000										
	02241	2000 000000000										
, · ·	02242	0100000000000		BCD	310000	060000	OORAG	00				F3B11790
	02243	.0600000000000									•	
	02244	465121000000										
		+170000000000				000000						F3B11800
	02246	626724000000		BCD	35XD00	OWTBOO	OCLSO	00				F3B11810
	02247	666322000000										
	02250	234362000000										
	02251	672122626060	M1D	BCD	7XABS	ABS	XINT	INT	XFIX	FLOAT XMOD		F3B11820
	02252	212262606060										
	02253	673145636060										
	02254	314563606060										
_	02255	672631676060										
	02256	264346216360										
	02257	674446246060										
	02260	444624606060		BCD	4MOD	XSIGN	SIGN	XMAXO				F3B11830
	02261	676231274560			-							
	02262	623127456060										
	02263	674421670060										
	02264	442167016060		BCD	7MAX1	XMAX1	MAXO	XMINO	MINI	XMIN1 MINO		F3B11840
	02265	674421670160									,	
	02266	442167006060										
	02267	674431450060										
											· ·	

02270	44314501					
02271	67443145					
02272	44314500				THE OR THE ENLY NO OF FORTAG ENERY DURING CHE EDIT	E3R11850
02273	0 00000				TAG OR INT FMLA NO OF FORTAG ENTRY DURING CHTG EDIT	F3B11860
02274	0 00000				25 COMP OF NO OF WORDS IN CHIE TABLE	F3B11870
02275	0 00000				25 COMP OF CORE ENTRY POINT IN CHIC TABLE	F3B11880
02276	0 00000				25 COMP OF NEXT ENIRY POINT IN CHILD TABLE BLOCK	F3B11890
02277	0 00000				TAG OR INT FMLA NO OF FORTAG ENTRY DURING CHTG EDIT 25 COMP OF NO OF WORDS IN CHTG TABLE 25 COMP OF CUR. ENTRY POINT IN CHTG TABLE 25 COMP OF NEXT ENTRY POINT IN CHTG TABLE INT FMLA NO APPEARING IN CURRENT CHTG TABLE BLOCK LENGTH OF SXIX TABLE	F3B11900
02300	0 00000					
02301	0 00000				LOCATION WORD OF CURRENT DO INST	F3B11920
02302	0 00000				IRC DURING CHIG TABLE SEARCH SXIX TABLE SEARCH	F3B11920
02303	0 00000				TAG OF CUR AIL INST DURING CHIG TABLE SEARCH	F3011930
02304	0.00000				LOCATION WORD OF CURRENT DO INST IRC DURING CHTG TABLE SEARCH. SXTX TABLE SEARCH TAG OF CUR AIL INST DURING CHTG TABLE SEARCH 2S COMP OF NO OF WORDS IN CUR DO REC 2S COMP OF NO OF WORDS IN CUR AIL REC NO OF REC READS INT FMLA NO OF CUR BLOCK OF DO INST INT FMLA NO OF CUR BLOCK OF AIL INST COUNT NO OF PAIRS OF MPY.LRS INST FOR EXP ROUTINE IND SPECIAL OP ROUTINE	F3B11940
02305	0 00000				25 COMP OF NO OF WORDS IN CUR AIL REC	F3B11950
02306	0 00000				NO OF REC READS	F3B11960
02307	0 00000				INT FMLA NO OF CUR BLOCK OF DO INST	F3B11970
02310	0 00000				INT FMLA NO OF CUR BLOCK OF AIL INST	F3B11980
02311	0 00000				COUNT NO OF PAIRS OF MPY, LRS INST FOR EXP ROUTINE	F3B11990
02312	0 00000	0 00000	CCELL		IND SPECIAL OP ROUTINE IND APPEARANCE OF END MARK IN MAX, MIN ROUTINES CELL FOR SAVING MQ CELL FOR SAVING IRA	F3B12000
02313	0 00000	0 00000	ENDT		IND APPEARANCE OF END MARK IN MAX, MIN ROUTINES	F3B12010
02314	0 00000	0 00000	E1C		CELL FOR SAVING MQ	F3B12020
02315	0 00000				Value 1 411 411 411 411 411 411 411 411 411	
02316	0 00000	0 00000	E3C		CELL FOR SAVING IRB	F3B12040
02317	0 00000	0 00000	BBOX		2S COMP OF NO OF WORDS ALREADY ENTERED IN BLOCK	F3B12050
02320	0 00000	0 00000	3WD		TEMP STORAGE FOR THID WD OF COMPILED INST	F3B12060
02321	0 00000	0 00000	4WD		CELL FOR SAVING IRB 2S COMP OF NO OF WORDS ALREADY ENTERED IN BLOCK TEMP STORAGE FOR THID WD OF COMPILED INST TEMP STORAGE FORFOURTH WD OF COMPILED INST 4 FOUR WORD INST SPACE FOR COMPILING LENGTH OF FORTAG TABLE 1500 AIL,DO,CIB LATER SHARE THIS BLOCK 300 2 ORIGEN + SYIX LENGTH SXIX CHIG LENGTH	F3B12070
•		02322	MICW	BSS	4 FOUR WORD INST SPACE FOR COMPILING	F3B12080
02326	0 00000	0 00000		PZE	LENGTH OF FORTAG TABLE	F3B12090
		02327	FORTAG	BSS	1500 AIL,DO,CIB LATER SHARE THIS BLOCK	F3B12100
		05263	UCHTG	BSS	300 2 ORIGEN + SXTX LENGTH, SXTX, CHTG LENGTH 600	F3B12110
		05737	ERAS	BSS	2 ORIGEN + SXTX LENGTH, SXTX, CHTG LENGTH	F3B12120
		05741	CHTG	BSS	600	
		02327			FORTAG	F3B12140
		02473			FORTAG+100	F3B12150
		02637	•	-	FORTAG+200	F3B12160
-		. 03003			FORTAG+300	F3B12170
		07073			3643	
		00030		END		F3B13420
		00000				

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FIN
            MASTER RECORD CARD = FN058
                                 MASTER RECORD CARD = FN058
                              THE FOLLOWING PROGRAM CONSTITUTES THE SECOND SECTION OF THE F3B00010
                              MERGE. IT PREPARES THE TIFGO FILE OF COMPILED INSTRUCTIONS F3800020
                              - I.E., THE INSTRUCTIONS WHICH ARE NEEDED TO COMPLETE THE F3B00030
                              TRANSLATION OF CONTROL FORMULAS AS WELL AS THOSE WHICH BECOMEF3B00040
                              NECESSARY AS A RESULT OF THE INTERRELATION BETWEEN CONTROL F3B00050
                              FORMULAS AND DO FORMULAS - FOR LATER MERGING WITH THE FILE OFF3B00060
                              INSTRUCTIONS CREATED IN THE FIRST SECTION OF THE MERGE F3B00070
      00030 ORG 24
POSITIONING OF TAPE 2, TAPE 3, TAPE 4
0 53400 4 02274 M20000 LXA M2CON,4 PLACE A ZERO IN 1R 4
                                                                                   F3B00080
                                                                                   F3B00090
F3B00100
 00031 1 00013 4 00032 COR1 TXI M20000+2,4,11 ADD 13 FOR SPACING TAPE TO TIFGO TABLE F3B00110
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00101		00004					RDRB5,1,4			F3B00520
00102		60200					CHS2		COMPUTED CHECK SUM. DO CHECK SUMS MATCH	F3800530
00103	_	50000	-				CHS1		COMPUTED CHECK SUM.	F3B00540
00104	-	40200	-				CHS2		DO CHECK SUMS MATCH	F3B00550
00105		10000					STRS		169	F3B00560
00106	-	00001					RDRA3,4,1		IF THE SUMS DONT AGREE TRY 4 MORE TIMES	F3B00570
00107	0	07400	4	00004	COR3	TSX	494		CHECK SUMS INCORRECT AFTER 5 TRIES	F3B00580
								SOR	T TRASTO ENTRIES BY TYPE	F3B00590
00110	0	50000	0	02345	STRS		TRSWC		INITIALIZATION OF ALL MODIFIED ADDRESSES	F3B00600
00111	0	40000	0	02333			TRSORG			F3B00610
00112	0	62100	0	00135		STA				F3B00620
00113	0	62100	0	00140		STA				F3B00630
00114	0	62100	0	00144		STA	A3			F3B00640
00115	0	62100	0	00154		STA	B1			F3B00650
00116	0	62100	0	00162		STA	85			F3B00660
00117	0	62100	0	00174		STA	C3			F3B00670
00120	0	62100	0	00204		STA	D2			F3B00680
00121	0	62100	0	00210		STA	D3			F3B00690
00122	0	62100	0	00220		STA	E2			F3B00700
00123	0	62100	0	00226		STA	E4			F3B00710
00124	0	62100	0	00240		STA				F3B00720
00125	-0	63400	0	02337		SXD	180X+0 280X+0 380X+0 480X+0		CLEAR DECREMENT OF WORK AREA	F3B00730
00126	-0	63400	0	02340		SXD	2B0X • 0			F3B00740
00127	-0	63400	0	02341		SXD	3B0X • 0			F3800750
00130	-0	63400	0	02342						F3B00760
00131	-0	63400	0	02343		SXD	580X .0			F3B00770
00132	-0	63400	0	02344		SXD	6BOX • 0			F3B00780
		53400				LXA	TRSWC • 1		CLEAR DECREMENT OF WORK AREA WORD COUNT IN IR 1 OBTAIN WORD 3, AND SEPARATE TYPES ENTRY IS TYPE 4,5 OR 6, 3RD WD. MINUS 1, 2, OR 3	F3B00790
00134	1	77776	1	00135		TXI	A4,1,-2			F3B00800
00135	0	50000	1	00000	A 4	CLA	0,1		OBTAIN WORD 3, AND SEPARATE TYPES	F3B00810
00136	-0	12000	0	00203		TMI	D1		ENTRY IS TYPE 4.5 OR 6. 3RD WD. MINUS	F3B00820
				,	1		ENTRY IS T	TYPE	1, 2, OR 3	F3B00830
00137	1	00002	1	00140		TXI	A1,1,2		RESTORE LOOP COUNT	F3B00840
00140	0	50000	1	00000	A1	CLA	0 • 1		OBTAIN WORD 1	F3B00850
00141	0	12000	0	00153		TPL	82		ENTRY IS TYPE 1 OR 2	F3800860
					1		ENTRY IS T		3	F3B00870
00142	0	53400	4	02277		LXA	L(4),4		MINUS IN FIRST AND THIRD WDS.	F3B00880
00143	-0	53400	2	02341			3B0X • 2		PLACE A COUNT OF 4 IN IR 4,	F3B00890
00144	-0	50000	1	00000	A3	CAL	0 • 1		CLEAR IR 2, AND GET 1ST WD. IN ACC	F3B00900
00145	0	60200	2	04030		SLW	TYPE3,2		PLACE IN PROPER MEMORY LOC.	F3B00910
00146	1	77777	2	00147		TXI	A2,2,-1		SUB. 1 FROM IR 2, LOOP BACK	F3B00920
		63400			A2	SXD	3BOX • 2		TO GET 4 WORDS IN PROPER LOC.	F3B00930
00150	-2	00001	1	00247		TNX	PACK +1 +1		EXIT FOR END OF TRASTO	F3B00940
		00001				TIX	A3,4,1			F3B00950
00152	1	77776	1	00135		TXI	A4,1,-2		PICK UP NEXT TRASTO ENTRY	F3B00960
							ENTRY IS T	YPE :	ENTRY IS TYPE 4,5 OR 6, 3RD WD. MINUS 1, 2, OR 3 RESTORE LOOP COUNT OBTAIN WORD 1 ENTRY IS TYPE 1 OR 2 3 MINUS IN FIRST AND THIRD WDS. PLACE A COUNT OF 4 IN IR 4, CLEAR IR 2, AND GET 1ST WD. IN ACC PLACE IN PROPER MEMORY LOC. SUB. 1 FROM IR 2, LOOP BACK TO GET 4 WORDS IN PROPER LOC. EXIT FOR END OF TRASTO PICK UP NEXT TRASTO ENTRY 1 OR 2 OBTAIN WORD 2	F3B00970
00153	1	77777	1	00154	B2	TXI	B1,1,-1			F3B00980
•		50000			B1	CAL	0.1		OBTAIN WORD 2	F3B00990
• • • • •		32000				ANA	MASK		EXAMINE PREFIX, IF TYPE 2 HAS MINUS SIGN	F3B01000
00156		10000				TZE	C1		ENTRY IS TYPE 1	F3B01010
							ENTRY IS T		2	F3B01020
00157	1	00001	1	00160		IXI	B3 • 1 • 1		RESTORE COUNT TO GET WORD 1 COUNT 4 IN IR 4 CLEAR IR 2	F3B01030
• • • •	_	53400			B3	LXA	L(4),4		COUNT 4 IN IR 4	F3B01040
00161						LXD	2BOX • 2		CLEAR IR 2	F3B01050
	-									

	00162 -	0 50000	1	00000	B 5	CAL	0,1	1ST WORD	F3B01060
	00163	0 60200	2	03210		SLW	TYPE2,2	PROPER OUTPUT AREA	F3B01070
	00164	1 77777	2	00165		TXI	B4,2,-1	DECREASE COUNT IN IR 2 BY -1	F3B01080
•	00165 -	0 63400	2	02340	B4	SXD	2BOX • 2	PLACE COUNT IN PROPER PLACE	F3801090
	00166 -	2 00001	. 1	.00247		TNX	PACK + 1 + 1	EXIT	F3801100
,	00167	2 00001	. 4	00162		TIX	B5.9491		F3B01110
	00170	1 77776	1	00135		TXI	A4,1,-2	TRANSFER BACK TO SORT NEXT ENTRY	F3B01120
	• • • • • • • • • • • • • • • • • • • •						ENTRY IS TYPE 1		F3B01130
	00171	1 00001	. 1	00172	C 1	TXI	C2•1•1	RESTORE COUNT TO GET WD 1.	F3B01140
	00172	0 53400	4	02277	Ç2	LXA	L(4),4		F3B01150
	00173 -	0 53400	2	02337		LXD	1BOX • 2		F3B01160
	00174 -	0 50000	1	00000	C3	CAL	0,1		F3801170
	00175	0 60200	2	02370		SLW	TYPE1.2	STORE IN PROPER MEMORY POSITION	F3B01180
	00176	1 77777	2	00177		TXI	C4•2•-1		F3B01190
	00177 -	0 63400	2	02337	C4	SXD	1BOX • 2	SAVE COUNT OF TYPE 1 ENTRY	F3B01200
	00200 -	2 00001	. 1	00247		TNX	PACK+1+1	EXIT	F3B01210
	00201	2 00001	4	00174		TIX	C3,4,1	·	F3B01220
	00202	1 77776	1	00135		TXI	A4,1,-2	BACK FOR NEXT ENTRY	F3B01230
							ENTRY IS TYPE 4	• 5 OR 6	F3B01240
	00203	1 00002	1	00204	D1	TXI	D2 • 1 • 2		F3B01250
	00204	0 50000	1	00000	D2	CLA	0.1	OBTAIN WORD 1	F3B01260
	00205	0 12000	0	00217		TPL	E1	ENTRY IS TYPE 4 OR 6	F3B01270
							ENTRY IS TYPE 5		F3B01280
•	00206	0 53400	4	02277		LXA	L(4),4		F3B01290
	00207 -	0 53400	2	02343		LXD	5BOX • 2	COUNT OF ENTRIES FOR TYPE 5	F3B01300
	00210 -	0 50000	1	00000	D3	CAL	0.1		F3B01310
	00211	0 60200	2	05470		SLW	TYPE5.2	STORE IN PROPER MEMORY POS.	F3B01320
	00212	1 77777	2	00213		TXI	D4,2,-1		F3B01330
	00213 -	0 63400	2	02343	D4	SXD	5BOX • 2	SAVE COUNT FOR TYPE 1 ENTRY	F3B01340
	00214 -	2 00001	1	00247		TNX	PACK+1+1	EXIT	F3B01350
	00215	2 00001	4	00210		XIT	D3,4,1		F3B01360
	00216	1 77776	1	00135		IXT	A4,1,-2	OBTAIN NEXT TRASTO ENTRY	F3B01370
							ENTRY IS TYPE 4	OR 6	F3B01380
	00217	1 7 7777	1	00220	E1 ·	TXI	E2+1+-1		F3B01390
	00220 -	0 50000	1	00000	E2	CAL	0,1	OBTAIN WORD 2	F3B01400
	00221 -	0 32000	0	02335		ANA	MASK	TEST IF MINUS	F3B01410
	00222	0 10000	0	00235		TZE	F1	ENTRY IS TYPE 4	F3B01420
							ENTRY IS TYPE 6		F3B01430
	00223	1 00001	. 1	00224		TXI	E3,1,1	RESTORE COUNT TO GET WORD 1	F3B01440
	00224	0 53400	4	02277	E3	LXA	L(4),4		F3B01450
	00225 -	0 53400	2	02344		LXD	6B0X•2	•	F3B01460
	00226 -	0 50000	1	00000	E4	CAL	0,1		F3B01470
	00227	0 60200	2	06310		SLW	TYPE6,2	STORE IN PROPER MEMORY POS	F3B01480
	00230	1 77777	2	00231		TXI	E5,2,-1		F3B01490
	00231 -	0 63400	2	02344	E5	SXD	6B0X•2	SAVE COUNT FOR TYPE 6 ENTRY	F3B01500
	00232 -	2 00001	. 1	00247		TNX	PACK •1 •1	EXIT	F3B01510
	00233	2 00001	4	00226		TIX	E4,4,1	•	F3B01520
	00234	1 77776	1	00135		TXI	A4,1,-2	OBTAIN NEXT TRASTO ENTRY	F3B01530
							ENTRY IS TYPE 4		F3B01540
	00235	1 00001	1	00236	F1	TXI	F2,1,1		F3B01550
	00236	0 53400	4	02277	F2	LXA	L(4) ,4		F3B01560
	00237 -	0 53400	2	02342		LXD	4B0X • 2		F3B01570
	00240 -	0 50000	1	00000	F3	CAL	0,1		F3B01580
	00241	0 60200	2	04650		SLW	TYPE4.2	STORE IN PROPER MEMORY POS	F3B01590
	_		-					IST WORD PROPER OUTPUT AREA DECREASE COUNT IN IR 2 BY -1 PLACE COUNT IN PROPER PLACE EXIT TRANSFER BACK TO SORT NEXT ENTRY RESTORE COUNT TO GET WD 1. STORE IN PROPER MEMORY POSITION SAVE COUNT OF TYPE 1 ENTRY EXIT BACK FOR NEXT ENTRY , 5 OR 6 OBTAIN WORD 1 ENTRY IS TYPE 4 OR 6 COUNT OF ENTRIES FOR TYPE 5 STORE IN PROPER MEMORY POS. SAVE COUNT FOR TYPE 1 ENTRY EXIT OBTAIN NEXT TRASTO ENTRY OR 6 OBTAIN WORD 2 TEST IF MINUS ENTRY IS TYPE 4 RESTORE COUNT TO GET WORD 1 STORE IN PROPER MEMORY POS SAVE COUNT FOR TYPE 6 ENTRY EXIT OBTAIN NEXT TRASTO ENTRY	

4:2

00242 1 77777 2 00243	TXI F4,2,-1	F3B01600
	4 SXD 4BOX, 2 SAVE COUNT FOR TYPE 4 ENTRY	F3B01610
00244 -2 00001 1 00247	TX1 F4,2,-1 4 SXD 4BOX,2 TNX PACK,1,1 TIX F3,4,1 TXI A4,1,-2 OBTAIN NEXT TRASTO ENTRIES	F3B01620
00245 2 00001 4 00240	TIX F3,4,1	F3B01630
00246 1 77776 1 00135	TXI A4+1+-2 OBTAIN NEXT TRASTO ENTRIES	F3B01640
00240 2 11110 2 00200	TYPE 2 TO TRASTO	F3B01650
00247 -0 53400 1 02337 P	TYPE 2 TO TRASTO ACK LXD 1BOX,1 PACK TRASTO ENTRIES TO GETHER LXD 2BOX,4 IN MEMORY IN ORDER OF TYPES 1 THRU	F3B01660
00250 -0 53400 4 02340	LXD 2BOX+4 IN MEMORY IN ORDER OF TYPES 1 THRU	F3B01670
00251 -3 00000 4 00261	TXL H5+4+0 6+	F3B01680
00252 -0 53400 2 02274	LXD L(0) •2	F3B01690
00252 -0 50000 2 03210 G		F3B01700
00254 0 60200 1 02370	SLW TYPE1.1	F3B01710
00255 1 77777 1 00256	TXI G1:1:-1	F3B01720
00256 1 77777 2 00257 G	1 TXI G2•2•-1	F3B01730
00257 1 00001 4 00260 G	7 TXI G3.44.1	F3B01740
00231 1 00001 1 00200	3 TXH G4.4.0 INDEX C REDUCES TO ZERO	F3B01750
00260 3 00000 4 00253 G	TYPE 2 TO TRASTO	F3B01760
00261 -0 53400 2 02341 H	5 LXD 3BOX•2	F3B01770
	TXL 15,2,0	F3B01780
00262 -3 00000 2 00271	4 CAL TYPE3,4	F3B01790
00263 -0 50000 4 04030 H	SLW TYPE1:1	F3B01800
00264 0 60200 1 02370	TXI H1919-1	F3B01810
00265 1 77777 1 00266	1 TXI H2949-1	F3B01820
00266 1 77777 4 00267 H	I IXI 02947 TI	F3B01830
00267 1 00001 2 00270 H	2 TXI H3•2•1	F3B01840
00270 3 00000 2 00263 H	3 TXH H49290	F3B01850
	TIPE 4 TO TRASTO	F3B01860
00271 -0 53400 4 02342 1	TXH G4,4,0 INDEX C REDUCES TO ZERO TYPE 3 TO TRASTO LXD 3BOX,2 TXL 15,2,0 CAL TYPE3,4 SLW TYPE1,1 TXI H1,1,-1 TXI H2,4,-1 TXI H2,4,-1 TXI H2,4,-1 TXI H4,2,0 TYPE 4 TO TRASTO LXD 4BOX,4 TXL J5,4,0 4 CAL TYPE4,2	F3B01870
00272 -3 00000 4 00301	TXL J59490	F3B01880
00273 -0 50000 2 04650 1	4 CAL TYPE4,2	F3B01890
00274 0 60200 1 02370	SLW TYPE1+1	F3B01900
00275 1 77777 1 00276	TXI I1+1+-1	F3B01900
00276 1 77777 2 00277 I	1 TXI I2+2+-1	F3B01910
00277 1 00001 4 00300 I	2 TXI I3•4•1	F3B01920
00300 3 00000 4 00273 I	3 TXH 14,4,0	F3B01930
	TYPE 5 TO TRASTO	
00301 -0 53400 2 02343 J	5 LXD 5BOX+2	F3B01950
00302 -3 00000 2 00311	TXL K5+2+0	F3B01960
00303 -0 50000 4 05470 J	,	F3B01970
00304 0 60200 1 02370		F3B01980
00305 1 77777 1 00306	TX1 J1+1+-1	F3B01990
00306 1 77777 4 00307 J	1 TXI J2,4,-1	F3B02000
00307 1 00001 2 00310 J	2 TXI J3•2•1	F3802010
00310 3 00000 2 00303 J	3 TXH J4,2,0	F3B02020
	TYPE 6 TO TRASTO	F3B02030
00311 -0 53400 4 02344 K	5 LXD 6BOX•4	F3B02040
00312 -3 00000 4 00321	TXL CALL:44:0	F3B02050
00313 -0 50000 2 06310 K	4 CAL TYPE6,2	F3B02060
00314 0 60200 1 02370	SLW TYPE1,1	F3B02070
00315 1 77777 1 00316	TXI K1+1+-1	F3B02080
00316 1 77777 2 00317 K	1 TXI K2+2+-1	F3B02090
00317 1 00001 4 00320 K	2 TXI K3,4,1	F3B02100
00320 3 00000 4 00313 K	3 TXH K49490	F3B02110
00520 5 00000 1 00525	3 TXH K4,4,0 PROGRAM TO READ TIFGO TABLE TION RIT TURN OFF TAPE CHECK INDICATOR AND LITES	F3B02120
00321 -0 76000 0 00012 R	TURN OFF TAPE CHECK INDICATOR AND LITES	F3B02130
DOTET - O LOGGE O COOLE IN		

									50000044
			_	00321	CALL	SYN	RTT00		F3802140
00322	0	76100	0	00000		NOP	W056TD 0	LOAD COUNT OF E FOR ERROR POUTINE	F3802130
00323	0	53400	2	02330		LXA	MZECIR#Z	COUNT OF 5 FOR ERROR ROUTINE	F3802160
00324	0	76200	0	00222	RTT03	KIB	2	SELECT TAPE 2 TO READ TIPGO	F3802170
00325	. 0	70000	0	05471		CPY	11FG0-1	INCUTICATION FOR TICCO TARE	F3802180
00326	0	50000	0	05471		CLA	TIFGO-1	IDENTIFICATION FOR TIFGO TABLE	F3805140
00327	0	40200	0	02276		SUB	L(2)	15 TABLE CALLED FOR	F3B02200
00330	0	10000	0	00332		TZE	RTIDI	TES	F3802210
00331	0	07400	4	00004		TSX	494	NOT TIPGO FILE	F3802220
00332	0	70000	0	05471	RTTD1	CPY	TIFGO-1	GET WORD COUNT	F3B02230
00333	0	53400	1	02274		LXA	L(0) •1		F3B02240
00334	. 0	50000	0	05471		CLA	TIFGO-1	TEST WD. COUNT	F3B02250
00335	0	10000	0	00342		TZE	RTTD5	NO TIFGO ENTRIES	F3B02260
00336	0	70000	1	05472	RTTD2	CPY	TIFGO 1	COPY	F3B02270
00337	1	77777	1	00336		TXI	RTTD2+1+-1	LOOP	F3B02280
00340	0	07400	4	00004		TSX	494	EOF INCORRECT	F3B02290
00341	0	76600	0	00333		IOD		EOR	F3B02300
00342	-0	76000	0	00012	RTTD5	RTT		IS TAPE CHECK ON	F3B02310
00343	0	02000	0	00346		TRA	RTTD4	YES	F3B02320
00344	-0	63400	1	05471		SXD	TIFGO-1,1	NO T	F3B02330
00345	0	02000	0	00351		TRA	RTTE1	TO READ TRAD TABLE	F3B02340
00346	0	76400	0	00202	RTTD4	BST	2		F3B02350
00347	. 2	00001	2	00324		TIX	RTTD3,2,1		F3B02360
00350	0	07400	4	00004	COR4	TSX	494	ERROR READING TIFGO TABLE AFTER 5 TRIES	F3B02370
				•			PROGRAM TO READ	TRAD TABLE	F3802380
00351	0	53400	2	02330	RTTE1	LXA	M2ECTR•2	LOAD COUNT OF 5 FOR ERROR ROUTINE	F3B02390
00352	0	76200	0	00222	RTTE5	RTB	2	READ TRAD TABLE FROM TAPE 2	F3B02400
00353	0	70000	0	06766		CPY	TRAD-1	IDENTIFICATION NUMBER	F3B02410
00354	0	50000	0	06766		CLA	TRAD-1		F3B02420
00355	0	40200	0	02331		SUB	L(3)	IS TABLE CALLED FOR	F3B02430
00356	0	10000	0	00360		TZE	RTTE2	YES	F3B02440
00357	0	07400	4	00004		TSX	494	TRAD TABLE NOT CALLED FOR	F3B02450
00360	0	70000	0	06766	RTTE2	CPY	TRAD-1	GET WORD COUNT	F3B02460
00361	0	50000	0	06766		CLA	TRAD-1	TEST WORD COUNT FOR NUMBER OF ENTRIES	F3B02470
00362	0	10000	0	00370		TZE	RTTE6		F3B02480
00363	0	53400	1	02274		LXA	L(0) •1		F3B02490
00364	0	70000	1	06767	RTTE3	CPY	TRAD, 1	COPY TRAD ENTRIES AND GET 2S COMP.	F3B02500
00365	1	77777	1	00364		TXI	RTTE3,1,-1	OF NUMBER OF ENTRIES.	F3B02510
00366	0	07400	4	00004		TSX	494	EOF INCORRECT	F3B02520
00367	0	76600	0	00333		IOD		EOR	F3B02530
00370	-0	76000	0	00012	RTTE6	RTT		IS TAPE CHECK ON	F3B02540
00371	0	02000	0	00373		TRA	RTTE4	YES	F3B02550
00372	0	02000	0	00376		TRA	RTTC0	NO	F3B02560
00373	0	76400	0	00202	RTTE4	BST	2 .	ERROR ROUTINE FOR READING TRAD	F3B02570
00374	2	00001	2	00352		TIX	RTTE5,2,1	ENTRIES	F3B02580
00375	0	07400	4	00004	COR5	TSX	494	AFTER 5 TRIES	F3B02590
							PROGRAM TO READ	TRALEV	F3B02600
00376	0	76000	0	00000	RTTCO	CLM		CLEAR ACCUMULATOR	F3802610
00377	0	60200	0	03210		SLW	TRALEV-1	LOAD COUNT OF 5 FOR ERROR ROUTINE SELECT TAPE 2 TO READ TIFGO IDENTIFICATION FOR TIFGO TABLE IS TABLE CALLED FOR YES NOT TIFGO FILE GET WORD COUNT TEST WD. COUNT NO TIFGO ENTRIES COPY LOOP EOF INCORRECT EOR IS TAPE CHECK ON YES NO TO READ TRAD TABLE ERROR READING TIFGO TABLE AFTER 5 TRIES TRAD TABLE LOAD COUNT OF 5 FOR ERROR ROUTINE READ TRAD TABLE FROM TAPE 2 IDENTIFICATION NUMBER IS TABLE CALLED FOR YES TRAD TABLE NOT CALLED FOR GET WORD COUNT TEST WORD COUNT FOR NUMBER OF ENTRIES COPY TRAD ENTRIES AND GET 2S COMP. OF NUMBER OF ENTRIES. EOF INCORRECT EOR IS TAPE CHECK ON YES NO ERROR ROUTINE FOR READING TRAD ENTRIES AFTER 5 TRIES TRALEV CLEAR ACCUMULATOR SET WORD PRECEDING ENTRIES TO ZERO LOAD COUNT OF 5 FOR ERROR ROUTINE READ TRALEV ENTRIES FROM TP. 4 IDENTIFICATION IS TAPE CHECK ON YES	F3B02620
00400	0	53400	2	02330	RTTC4	LXA	M2ECTR+2	LOAD COUNT OF 5 FOR ERROR ROUTINE	F3B02630
00401	Õ	76200	0	00224	RTTC2	RTB	4	READ TRALEV ENTRIES FROM TP. 4	F3B02640
00402	0	70000	0	03211		CPY	TRALEV	IDENTIFICATION	F3802650
00403	-0	76000	0	00012		RTT		IS TAPE CHECK ON	F3B02660
00404	0	02000	0	00406		TRA	RTTC1	YES	F3B02670

00405	0	02000	0	00411		TRA	RTTC3	AFTER 5 TRIES 1S TRALEV EMPTY YES LOAD COUNT OF 5 FOR ERROR ROUTINE RESET IR 1 TO ALL ONES COPY LOOP. ADD COUNT TO READ ADDRESS EOF INCORRECT EOR IS TAPE CHECK ON YES NO BACKSPACE TAPE 4 READ AGAIN GET WORD COUNT TRY AGAIN TO READ IN ENTRIES ERROR READING TAPE 4 SAVE WORD COUNT OF FIRST RECORD, 2S COMP. LOAD COUNT OF 5 FOR ERROR ROUTINE REPLACE COUNT IN IR 1 OF FIRST RECORD COPY SECOND RECORD ETC, IN PROPER PLACE SUBTRACT 1 FROM COUNT EOF EOR 1S TAPE CHECK ON YES, COMPARE TO WORD COUNT OF FIRST RECORD, NO. ERROR TRYING TO READ TRALEV FROM TAPE 4 SAVE TRALEV WORD COUNT TIFGO WORD COUNT. 2S COMPLIMENT OF WORD COUNT IN IR 1 SAVE WORD COUNT PLACE 5 IN IR 1 MOVE UP TAPE 2, 3 FILES TO TIFGO FILE END OF RECORD	F3802680
00406	0	76400	0	00204	RITCI	BSI	4	ERROR ROUTINE FOR READING TRALEY	F3DU209U
00407	2	00001	2	00401		IIX	R11C29291	APPED A TOLES	F3002700
00410	0	07400	4	00004	COR6	15X	494	AFIER 5 IKIES	F3002710
00411	0	50000	0	03211	RIIC3	CLA	IRALEV	15 IKALEV EMPIY	F3802120
00412	0	10000	0	00450		TZE	001	YES	F3802730
00413	0	53400	2	02330		LXA	M2ECTR • 2	LOAD COUNT OF 5 FOR ERROR ROUTINE	F3802740
00414	-0	53400	1	02305	RTTA3	LXD	M2CON+9 1	RESEL IR I TO ALL UNES	F3802750
00415	0	70000	1	03211	RTTAL	CPY	TRALEV 1	COPY LOOP. ADD COUNT TO READ ADDRESS	F3802760
00416	1	77777	1	00415		TXI	RTIA1919-1	FOR THEODOLER	F3802770
00417	0	07400	4	00004		TSX	4,4	EOF INCORRECT	F3802780
00420	0	76600	0	00333		100		EUR	F3802790
00421	-0	76000	0	00012		RTT		IS TAPE CHECK ON	F3802800
00422	0	02000	0	00424		TRA	RTTA2	YES	F3802810
00423	0	02000	0	00431	•	TRA	RTTB1	NO	F3B02820
00424	0	76400	0	00204	RTTA2	BST	4	BACKSPACE TAPE 4	F3802830
00425	0	76200	0	00224		RTB	4	READ AGAIN	F3802840
00426	0	70000	0	03211		CPY	TRALEV	GET WORD COUNT	F3B02850
00427	2	00001	2	00414		XIT	RTTA3+2+1	TRY AGAIN TO READ IN ENTRIES	F3B02860
00430	0	07400	4	00004	COR7	TSX	494	ERROR READING TAPE 4	F3B02870
00431	-0	63400	1	00442	RTTB1	SXD	RTTB4•1	SAVE WORD COUNT OF FIRST RECORD, 25 COMP.	F3B02880
00432	0	53400	2	02330		LXA	M2ECTR+2	LOAD COUNT OF 5 FOR ERROR ROUTINE	F3B02890
00433	0	76200	0	00224	RTTB5	RTB	4		F3B02900
00434	-0	53400	1	00442		LXD	RTTB4•1	REPLACE COUNT IN IR 1 OF FIRST RECORD	F3B02910
00435	0	70000	1	03211	RTTB2	CPY	TRALEV 1	COPY SECOND RECORD ETC, IN PROPER PLACE	F3B02920
00436	. 1	77777	1	00435		IXT	RTTB2,1,-1	SUBTRACT 1 FROM COUNT	F3B02930
00437	0	02000	0	00447		TRA	RTTB6	EOF	F3B02940
00440	0	76600	0	00333		IOD		EOR	F3B02950
00441	-0	76000	0	00012		RTT		IS TAPE CHECK ON	F3802960
00442	-3	00000	1	00444	RTTB4	TXL	RTTB3•1	YES, COMPARE TO WORD COUNT OF FIRST	F3B02970
00443	0	02000	0	00447		TRA	RTTB6	RECORD, NO.	F3B02980
00444	0	76400	0	00204	RTTB3	BST	4		F3B02990
00445	2	00001	2	00433		XIT	RTTB5,2,1		F3B03000
00446	0	07400	4	00004	COR8	TSX	494	ERROR TRYING TO READ TRALEV FROM TAPE 4	F3B03010
00447	-0	63400	1	03210	RTTB6	SXD	TRALEV-1.1	SAVE TRALEV WORD COUNT	F3B03020
00450	0.	50000	0	02345	OUT	CLA	TRSWC	TIFGO WORD COUNT.	F3B03030
00451	0	76000	0	00006		COM		·	F3B03040
00452	0	40000	0	02275		ADD	M2CON+1	2S COMPLIMENT OF WORD COUNT	F3B03050
00453	0	73400	1	00000		PAX	0,1	IN IR 1	F3B03060
00454	-0	63400	1	02367		SXD	CTRSWC • 1	SAVE WORD COUNT	F3B03070
00455	-0	53400	1	02314		LXD	M2CON+16,1	PLACE 5 IN IR 1	F3B03080
00456	0	76200	0	00222	RDS	RDS	146	MOVE UP TAPE 2. 3 FILES TO TIFGO	F3B03090
00457	0	70000	0	02366	CPY	CPY	M2CW+4	FILE	F3B03100
00460	0	02000	0	00457		TRA	CPY		F3B03110
00461	0	02000	0	00463		TRA	TIX	END OF RECORD	F3B03120
00462	0	02000	0	00456		TRA	RDS		F3B03130
00463	2	00001	1	00456	TIX	TIX	RDS+1+1		F3B03140
00464	0	77200	0	00224	RE₩	REW	148	TAPE 4 REWOUND	F3B03150
		76000			•	CLM		SET ACC. TO ZERO	F3B03160
		60200				SLW	TIFFN	REPLACE INDEX COUNTERS	F3B03170
		60200				SLW	CTRAST	CELLS TO ZEROS	F3B03180
		60200				SLW	ETRAL		F3B03190
00471		60200				SLW	LEVNO		F3B03200
		60200	0	02331		SLW	CBOX	MOVE UP TAPE 2, 3 FILES TO TIFGO FILE END OF RECORD TAPE 4 REWOUND SET ACC. TO ZERO REPLACE INDEX COUNTERS CELLS TO ZEROS	F3B03210
								•	

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00473	0	60200	0 (02355		SLW	BBOX			F3B03220
00474	0	60200	0 (02332		SLW	LOX			F3B03230
00475	0	60200	0 (07324		SLW	ASNO		· .	F3B03240
00476	0	60200	0 (07323		SLW	EASCO	•		F3B03250
00477	0	60200	0 (02356		SLW	ETRAST			F3B03260
00500	0	60200	0 (02357		SLW	NETRAL			F3B03270
00501	0	60200	0 (07322		SLW	TFRCO			F3B03280
00502	0	53400	1 (02274		LXA	M2CON 1	INITIALIZE IR 1 TO ZERO		F3B03290
							M2 MAIN PROGRAM	M- TIFGO FMLA NO NOT IN		F3B03300
							TRALEV			F3B03310
00503	-0	75400	1 (00000	M21000	PXD	0,1	TEST TO SEE IF AT END OF TIFGO		F3B03320
00504	0	40200	0 (05471		SUB	TIFGO-1	NO. OF TIFGO ENTRIES		F3B03330
0 0505	0	10000	0 (00751		TZE	M21900	END OF TIFGO		F3B03340
00506	0	50000	1 (05472		CLA	TIFGO,1	FIRST WD. OF TIFGO ENTRY,		F3B03350
00507	0	62200	0 (02345		STD	TIFFN	SAVE INTERNAL FMLA. NO.		F3B03360
00510	-0	12000	0 (00514		TMI	M21010	SIGNIFIES AN IF		F3B03370
00511	-0	32000	0 (02306		ANA	M2CON+10	TEST DIFFERTENT TYPES		F3B03380
00512	0	40200	0 (02300		SUB	M2CON+4			F3B03390
00513	0	10000	0 (00730		TZE	M21600	TIFGO ENTRY AN ASSIGN		F3B03400
00514	0	50000	0 (02347	M21010	CLA	ETRAL	DETERMINE CURRENT TIFGO ENTRY		F3B03410
00515	0	40200	0 (03210		SUB	TRALEV-1	FOR CORRESPONDING TRALEV ENTRY		F3B03420
00516	0	10000	0 (00523		TZE	M21020	END OF TRALEV		F3B03430
00517	-0	53400	2 (02347		LXD	ETRAL 2	IR 2. CURRENT TRALEV ENTRY		F3B03440
00520	0	50000	2 (03211		CLA	TRALEV,2	TRALEV, FMLA WD.		F3B03450
00521	0	40000	0 (02345		ADD	TIFFN	TIFGO FMLA NO.		F3B03460
00522	ø	10000	0 (00776		TZE	M22000	TIFGO ENTRY IN TRALEV		F3B03470
00523	0	50000	1 (05472	M21020	CLA	TIFGO,1	****** ****** *** *****		F3B03480
00524	-0	12000	0 (00672		TMI	M21800	TIFGO ENTRY AN IF(E)		F3B03490
00525	-0	32000	0 (02306		ANA	M2CON+10	71560 ENTEN 4 60 TO 4		F3B03500
00526	0	10000	0 (00536		TZE	M21030	TIFGO ENTRY A GO TO A		F3B03510
00527	0	34000	0 (02277		CAS	M2CON+3	TIECO ENTRY AN IE OVEREI OU		F3B03520
00530	1	77777	1 (00650		TXI	M21500+1+-1	TIFGO ENTRY AN IF OVERFLOW		F3B03530
00531	1	7 7777 :	1 (00625.		TXI	M21400+1+-1	TIFGO ENTRY AN IF DIVCK		F3B03540
00532	0	34000	0 (02276		CAS	M2CON+2	TIECO ENTRY AN IE CENCE		F3B03550
00533	1	77777	1 (00602		IXI	M21300919-1	TIECO ENTRY A CO TO AAL 1		F3B03560
00534	1	77777	1 (00550		TXI	M21100+1+-1	TIFGO ENTRY A GO TO NAME		F3B03570
00535	1	77776	1 (00503		1 X I	M21000919~2	O TO A		F3803580
						.	HOLOGOLA 11	10 10 A		F3B03590
00536	1	77777	1 (00537	M21030	IXI	M21030+1919-1	SAID WORD BETA TALADODECC		F3803600
00537	0	50000	1 (05472		CLA	1116091	CUIET TO DECREMENT		F3B03610
00540	0	76700	0 (00022		ALS	10	SHIFT TO DECREMENT		F3803620
00541	0	60100	0 (02364		510	MZCW+Z	COMPLE INSTRUCTION		F3803630
00542	0	07400	4 (02177		158	C1120094	ALDUA		F3B03640
00543	0	00000	0 (02345		HIK	HATE	ALPHA .		F3B03650
00544	0	00000	0 (02315		HIK	MZABC	IKA Beta		F3B03660
00545	0	00000	0 (02364		HIK	M2CW+2	BEIA		F3B03670
00546	0	00000	0 (02274		HIK	M2CON	U .		73803680
00547	1	77777	1 (00503		IXI	MELUUUSISTI	0.70 (4).1		- 3BU3690
						c	TIECO-1	U IU LAITI AND MODD OF TIEGO ENTRY		-3B03700
00550	0	50000	1 (05472	M21100	CLA	11001	CTDAD II IN ID 3	į	- 3803710
00551	0	73400	2 (00000		PAX	U # Z	CAME CIDAD II IN INDEX CELL DECO		-3803720
00552	-0	63400	2 (02332		SXU	LUX92	SAVE CIRAD O IN INDEX CELL DECRO	į	3803730
00553	-0	32000 (0 (02305		ANA	MACONTY	ADD ONE CIRAL I IN ACCUMULATOR	!	3803740
00554	. 0	40000	0 (02303		AUU	MZCONTI	INITIALIZE IR 1 TO ZERO TIFGO FMLA NO NOT IN TEST TO SEE IF AT END OF TIFGO NO. OF TIFGO ENTRIES END OF TIFGO FIRST WD. OF TIFGO ENTRY, SAVE INTERNAL FMLA. NO. SIGNIFIES AN IF TEST DIFFERTENT TYPES TIFGO ENTRY AN ASSIGN DETERMINE CURRENT TIFGO ENTRY FOR CORRESPONDING TRALEV ENTRY END OF TRALEV IR 2, CURRENT TRALEV ENTRY TRALEV, FMLA WD. TIFGO ENTRY IN TRALEV TIFGO ENTRY AN IF OVERFLOW TIFGO ENTRY AN IF DIVCK TIFGO ENTRY AN IF DIVCK TIFGO ENTRY AN IF SENSE TIFGO ENTRY AN IF DIVCK TIFGO ENTRY AN OO TO (A).1 TIFGO ENTRY A GO TO (A).1 TIFGO ENTRY A GO TO N(A) OTO A 2ND WORD BETA IN ADDRESS SHIFT TO DECREMENT 3RD WD OF INSTRUCTION AREA COMPILE INSTRUCTION AREA COMPILE INSTRUCTION ALPHA TRA BETA O O TO (A),I 2ND WORD OF TIFGO ENTRY CTRAD U IN IR 2 SAVE CTRAD U IN INDEX CELL DECR. SAVE CTRAD 1 IN ACCUMULATOR ADD ONE, CTRAD 1+1	1	3803750

	00555	o	40200	0	02332			LOX	CTRAD U 4TH WD OF INSTRUCTION COMPILE ALPHA ZERO	F3B03760 F3B03770
			60100					M2CW+3	4TH WD OF INSTRUCTION	F3B03780
	00557							CIT200+4	COMPILE	E2002700
	00560	_	00000					TIFFN	ALPHA	F3B03800
	00561	_	00000	-				M2CON	ZERO	F3B03810
	0 0562		00000					TIFFN	ALPHA	E3B03610
	00563		00000					M2CW+3	NO. OF TRAD ENTRUES CIRAD 1+1-CIRAD 2	F3003020
	00564		00001					M21120,2,1	STEP UP COUNT TO NEXT TRAD ENTRY	E3B03630
	00565					M21120		TIFGO.1	2ND WORD OF TIFGO ENTRY	F3B03850
	00566	0	62200	0	00600			M21140	STORE IN TXL INSTRUCTION	F3003030
-	00567					M21125		TRAD+250+2	BRING IN NEXT TRAD ENTRY	F3B03870
	00570		76700				ALS	18	POI BEIAI IN DECREMENT	£3803880
	00571		60100					M2CW+2	SAD MD. OF CIT	F3B03890
	00572		07400					CIT200•4	COMPILE	E3803900
	00573		00000					M2CON	ZERU	F3B03300
	00574	_	00000	_				M2ABC	I KA	F3803920
			00000					M2CW+2	IKAD BI	F3B03920
	00576	0	00000	0	02274		HTR	M2CON	CIED UD IDAD ENITOY	F3B03940
	00577	1	00001	2	00600		IXI	M21140,2,1 M21125,2	SIEP UP IKAU ENIKT	F3803950
		-3	00000	2	00567	M21140	IXL	M2112592	DACK TO NEXT TIEGO	F3B03960
	00601	. 1	77777	1	00503		1 X I	M21000+1+-1	BACK TO NEXT TIPOOP	F3803970
		_					#CV	TIFGO ENTRY AN	COMPTIE	F3B03980
	00602					M21300		CIT200+4	ALDHA	F3B03990
	00603	-	00000					TIFFN	7500	F3804000
	00604		00000					M2CON	7500	F3B04010
	00605		00000					M2CON	2500	F3804020
	00606		00000					M2CON	2ND WORD OF TIEGO ENTRY	F3B04030
	00607		50000					TIFG0:1	CAVE ADDRESS. RETA 2	F3B04040
			32000					M2CON+10 18	SHIET TO DECREMENT	F3B04050
	00611		76700				ALS	M3CON+3.3	LOAD 2 IN IP 2. 2 SETS OF INSTRUCTION	F3B04060
	00612	Ü	53400	2	02216	W21210		M2CON+2,2 M2CW+2	STORE RETA 2 IN 3RD WD.	F3B04070
						M21310		CIT200+4	COMPTLE	F3B04080
	••••	-	07400					M2CON	7.FDO	F3B04090
	00615		00000					M2ABC	TDA	F3B04100
	00616		00000					M2CW+2	RETA 2. RETA 1	F3B04110
			00000					M2CON	ZERO	F3B04120
	00620		00000					TIFGO,1	2ND WORD	F3B04130
	00621		50000					M2CON+9	SAVE DECREMENT	F3B04140
			32000					M21310+2+1	COMPILE SECOND TRA	F3B04150
	00623		77777					M21000 + 1 + - 1	BACK TO OBTAIN NEXT TIEGO	F3B04160
•	00624	1	****	•	00505		1 / 1	TIFGO ENTRY AN	IF DIV CK	F3B04170
	00/25	^	07400		02177	M21400	TSY	CIT200,4	COMPILE	F3B04180
	00625 00626		00000			M21400		TIFFN	ALPHA	F3B04190
	00627		00000					M2CON	7FRO	F3B04200
	00630		00000			•		M2CON	ZERO.	F3B04210
	00631		00000					M2CON	ZERO	F3B04220
	00632		50000					TIFGO,1	ALPHA 2ERO ALPHA NO. OF TRAD ENTRUES CTRAD 1+1-CTRAD 2 STEP UP COUNT TO NEXT TRAD ENTRY 2ND WORD OF TIFGO ENTRY STORE IN TXL INSTRUCTION BRING IN NEXT TRAD ENTRY PUT BETA1 IN DECREMENT 3RD WD. OF CIT COMPILE ZERO TRA TRAD BI ZERO STEP UP TRAD ENTRY TEST IF LAST TRAD ENTRY, NO BACK TO NEXT TIFGO. IF SENSE COMPILE ALPHA ZERO ZERO ZERO ZERO ZERO ZERO ZERO ZERO	F3B04230
			32000					M2CON+9	SAVE DECREMENT	F3B04240
	00634		53400					M2CON+2+2	COUNT OF 2 IN IR 2	F3B04250
	00635					M21410		M2CW+2	COMPILE	F3B04260
	00636		07400					CIT200,4	COMPILE	F3B04270
	00637		00000			:		M2CON	ZERO	F3B04280
	00640		00000		-			M2ABC	TRA	F3B04290
	00040	U	20000	J	72717			,		

									E3004300
00641	0	00000	0	02364		HTR	M2CW+2	BETA1.	F3804300
00642	0	00000	0	02274		HTR	M2CON	ZERO	F3004310
00643	0	50000	1	05472		CLA	TIFGO,1	2ND WORD	F3004320
00644	-0	32000	0	02306		ANA	M2CON+10	SAVE BETA 2	F3804330
00645	0	76700	0	00022		ALS	18	PLACE IN DECREMENT	F 3804 340
00646	2	00001	2	00635		TIX	M21410,2,1	COMPILE 2ND TRA INSTR.	F3B04350
00647	1	77777	1	00503		TXI	M21000,1,-1	BACK TO GET NEXT TIFGO	F3B04360
							TIFGO ENTRY AN	IF OVERFLOW	F3B04370
00650	0	50000	1	05472	M21500	CLA	TIFGO,1	2ND WORD OF TIFGO ENTRY	F3B04380
00651	-0	32000	Õ	02305		ANA	M2CON+9	SAVE DECREMENT	F3B04390
00652	Õ	60100	Õ	02364		STO	M2CW+2	3RD WORD, BETA 1	F3B04400
00653	ō	07400	4	02177		TSX	CIT200 • 4	COMPILE	F3B04410
00654	õ	00000	ò	02345		HTR	TIFFN	ALPHA	F3B04420
00655	ŏ	00000	ñ	02274		HTR	M2CON	ZERO	F3B04430
00656	ň	00000	õ	02364		HTR	M2CW+2	BETA 1	F3B04440
00650	ň	00000	ň	02274		HTR	M2CON	ZERO	F3B04450
00657	ň	50000	ĭ	05472		CLA	TIFGO.1	2ND WORD OF TIFGO ENTRY	F3B04460
00660	-0	22000	ń	02412		ANA	M2CON+10	SAVE BETA 2	F3804470
00001	-0	74700	Š	00000		AI S	19	SHIET TO DECREMENT	F3B04480
00662	0	10100	ž	00022		STO	MOCMTO	3RD WORD OF COMPILED INSTRUCTIONS	F3B04490
00003	0	07400	'n	02304	M21515	TCV	CIT200.4	COMPTLE	F3B04500
00664	ū	07400	7	02171	METOTO	UTD	M3CON	7FD0	F3B04510
00665	Ō	00000	ŏ	02214		TITO	MAARC	TDA	F3B04520
00666	0	00000	ŏ	02313		חות	MACHER	DETA 2	F3B04530
00667	Û	00000	ŏ	02304		HITD	MACON	75DO	F3804540
00670	0	00000	0	02214		TVI	M21000 - 1 1	BACK TO NEXT TIEGO ENTRY	F3B04550
006/1	1	11111	ī	00505		1 / 1	TIEGO ENTRY AN	IF (F)	F3B04560
	^	22000	^	02206	M21000	A AI A	M3CON+10	SAVE ADDRESS OF 1ST WD. BETA 1	F3804570
00672	-0	32000	ŏ	02300	M21800	AINA	18	PLACE IN DECREMENT	F3B04580
00673	0	10100	Š	00022		STO	MOCMTO	3RD WORD OF CIT	F3B04590
00674		00100	v	02304		TCV	CIT200.4	COMPILE	F3B04600
00675	0	07400	4	02111		UTD	TIEEN	AI DHA	F3804610
00676	0	00000	Ň	02343		HTD	MACON	7 F P C	F3804620
00677	0	00000	ŏ	02214		TIT.	MACON	7ED0	F3B04630
00700	Ü	00000	Ď	02274		HIK	Macon	7ED0	F3804640
00701	Ų	00000	Ų	02214		TVI	M21810-11	STEP COUNT FOR 2ND TIFGO WORD	F3B04650
00702	1	11111	1	00103	W21010		T1560-1	2ND WD. OF TIEGO ENTRY	F3B04660
00703	Û	50000	Ť	02472	M21810	ANA	1110011	CAVE DECDEMENT RETA 2	F3804670
00704	-0	32000	Ô	02305		ANA	Machai	SAVE DECREMENT DETA 2	F3804680
00 705	Û	90100	ŏ	02300		310	TIEEN	AI DUA	F3804690
00706	0	50000	0	02345		CLA	11FFN	1010) INSTR. NO. WITHIN INTERNAL FMLANO.	F3B04700
00707	-0	50100	ŏ	02301		CTO	MACH	INTERNAL EMIA NO.	F3B04710
00710	0	60100	0	02362		510	M2CW	COMPLE	F3804720
00711	-0	07400	4	02177		158	C1120094	ALBUA 10/9)	F3804730
00712	0	00000	0	02362		HIK	MZCW	TOE	F3804740
00713	0	00000	0	02316		HIK	MZABCTI	DETA 2 CIM2CH+//\	F3804750
00714	0	00000	0	02366		HIK	M2CWT4	TEDA	F3804760
00715	0	00000	0	02274		HIK	MZCUN TIEGO-1	AND MODD OF TIEGO ENTRY	F3804770
00716	0	50000	1.	05472		CLA	1170011	CAME ADDRESS. RETA 2	F3804780
00717	-0	32000	0	02306		ANA	M2CUN+1U	CHIET TO DECOFMENT	F3804790
00720	0	16100	0	00022		ALS	10	STORE BETA 2	F3804800
00721	0	60100	O	02366		510	M2CW+4	COMPTIE	F3804810
00722	0	07400	4	02177		15X	C1120094	ZEDO	F3804820
00723	0	00000	0	02274		HIK	MACON	TDI	F3804830
00724	0	00000	O	02317		HIK	MICADUTE	BETA1, ZERO 2ND WORD SAVE BETA 2 PLACE IN DECREMENT COMPILE 2ND TRA INSTR. BACK TO GET NEXT TIFGO IF OVERFLOW 2ND WORD OF TIFGO ENTRY SAVE DECREMENT 3RD WORD, BETA 1 COMPILE ALPHA ZERO BETA 1 ZERO 2ND WORD OF TIFGO ENTRY SAVE BETA 2 SHIFT TO DECREMENT 3RD WORD OF COMPILED INSTRUCTIONS COMPILE ZERO TRA BETA 2 ZERO BACK TO NEXT TIFGO ENTRY IF (E) SAVE ADDRESS OF 1ST WD, BETA 1 PLACE IN DECREMENT 3RD WORD OF CIT COMPILE ALPHA ZERO ZERO ZERO ZERO ZERO ZERO ZERO ZERO	. 200 1000

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00725	0	00000 0	02366		HTR	M2CW+4	BETA 3 C(M2CW+4) ZERO TR. TO COMPILE TRA TO BETA 1 ASSIGN CURRENT ASSIGN NO. 4TH WORD OF CIT +000001000000 REPLACE ASSIGN NO. COMPILE ALPHA ZERO +050000000000 CURRENT ASSIGN NO. 2ND WD. OF TIFGO ENTRY PLACE BETA IN DECREMENT CURRENT ASCO ENTRY PT. IN IR 2 STORE BETA IN PROPER ASCO LOC SIEP COUNT FOR NEXT ASCO ENTRY PT. AND STORE BACK FOR NEXT TIFGO TIME 2S COMPL. OF NO OF WDS IN BLOCK STEP UP BLOCK COUNT BY 3 TEST IF AT END OF BLOCK SELECT TAPE 2 STEPUP IR 4 BY 1 ZEROS IN IR 1 WRITE REMAINING CITS DECREASE COUNT IN IR 2 TEST IF AT END WRITE END OF FILE POSITION TAPE 2 AT BEGINNING OF TIFGO FILE BACK TO READ LOOP -TIFGO FMLA NO IN UPDATE TRALEV ENTRY POINT, SAVE IN PROPER CELL RESET IR 2 WITH ZERO TRASTO FMLA NO SEARCH, M2 SUBROUTINE CUR TIFGO FMLA NO NOT IN TRASTO CUR TIFGO FMLA NO IN TRASTO CUR TIFGO FMLA NO NOT IN TRASTO CUR TIFGO FMLA NO NOT IN TRASTO CUR TIFGO FMLA NO NOT ENTRY PT. COUNT TRALEV ENTRY IS IT START OF NEXT ENTRY 2	F3B04840
00726		00000 0			HTR	M2CON	ZERO	F3804850
00727	0	02000 0	00664		TRA	M21515	ACCION	F3804870
	_				c	TIFGO ENIRY AN	ASSIGN CURRENT ASSIGN NO.	F3804880
				M21600	CLA	ASNO	ATH WORD OF CIT	F3B04890
		60100 0			510	M2CW+3	+000001000000	F3804900
		40000 0			STO	M2CON+7 ASNO	PERIACE ASSIGN NO.	F3B04910
		60100 0			TCV	C1 T 200 + 4	COMPILE	F3B04920
•		07400 4			UTD	CIT200,4 TIFFN	AI DHA	F3B04930
•		00000 0			UTD	M2CON	ZERO	F3804940
		00000 0			HTP	M2CON+11	+05000000000	F3B04950
		00000 0			LITP	M2CW+3	CURRENT ASSIGN NO.	F3B04960
00740	ĭ	77777 1	02303	M21610	TYI	M21610+1:1:-1	COMMENT MODILAN MODI	F3B04970
		50000 1			. CI V	TIFG0,1	2ND WD. OF TIEGO ENTRY	F3B04980
		76700 0			ALS	18	PLACE BETA IN DECREMENT	F3B04990
00744	٥.	53400 2	07322		IXD	FASCO.2	CURRENT ASCO ENTRY PT. IN IR 2	F3B05000
		60100 2			STO	EASCO,2 ASCO,2	STORE BETA IN PROPER ASCO LOC	F3B05010
		77777 2			TYI	M21620,2,-1	STEP COUNT FOR NEXT ASCO ENTRY	F3B05020
00745		63400 2	07323	M21620	SXD	EASCO 2	PTA AND STORE	F3B05030
		77777 1			TXI	M21000 + 1 + - 1	BACK FOR NEXT TIFGO	F3B05040
00150	•		0000			M2 TERMINAL ROU	TINE	F3B05050
00751 -	'n	53400 2	02355	M21900	LXD	BBOX • 2	2S COMPL. OF NO OF WDS IN BLOCK	F3B05060
		53400 4			IXD	TFRCO:4	,	F3B05070
		00003 4			TXI	M21900+3,4,3	STEP UP BLOCK COUNT BY 3	F3B05080
00754 ~	. 2	00000 2	00764		TXL	M21920.2.0	TEST IF AT END OF BLOCK	F3B05090
		76600 0			WRS	146	SELECT TAPE 2	F3B05100
00756	1	00001 4	00757		TXI	M21910-1,4,1	STEPUP IR 4 BY 1	F3B05110
00757 -	ō	53400 1	02274		LXD	M2CON . 1	ZEROS IN IR 1	F3B05120
00760	õ	70000 1	06622	M21910	CPY	M2CON+1 CIB2+1	WRITE REMAINING CITS	F3B05130
		77777 1			TXI	M21910+2,1,-1	DECREASE COUNT IN IR 1	F3B05140
		00001 2			TXI	M21910+3,2,1	INCREASE COUNT IN IR 2	F3B05150
		00001 2			TXH	M21910•2•1	TEST IF AT END	F3B05160
00764	0	77000 0	00222	M21920	WEF	146	WRITE END OF FILE	F3B05170
		76400 0			BST	146		F3B05180
		00001 4			TIX	M21920+1,4,1		F3B05190
00767	0	76200 0	00222	M21925	RDS	146	POSITION TAPE 2 AT BEGINNING	F3B05200
					CPY	M2CW+4	OF TIFGO FILE	F3B05210
		02000 0			TRA	M21925+1	BACK TO READ LOOP	F3B05220
		02000 0			TRA	M22000-2		F3B05230
		02000 0			TRA	M21925		F3B05240
	0	76200 0	00221		RTB	1	•	F3B05250
		02000 0			TRA	4	•	F3B05260
••••						M2-MAIN PROGRAM	-TIFGO FMLA NO IN	F3B05270
						TRALEV		F3B05280
00776	1	77777 2	00777	M22000	IXI	M22000+1,2,-1	UPDATE TRALEV ENTRY	F3805290
00777 -	0	63400 2	02347		SXD	ETRAL , 2	POINT, SAVE IN PROPER CELL	F3805300
01000 -	0	53400 2	02274		LXD	M2CON + 2	RESET IR 2 WITH ZERO	F2005310
01001	0	07400 4	01456		TSX	M22700+4	TRASTO FMLA NO SEARCH, MZ SUBROUTINE	F3805320
01002	0	02000 0	01004		TRA	M22006	CUR TIFGO FMLA NO NOT IN TRASTO	F2D05330
01003	0	02000 0	01015		TRA	M22015	CUR TIFGO FMLA NO IN TRASTO	F3805340
					LXD	ETRAL , 2	25 COMPL. OF TRALEY ENTRY PT. COUNT	F3BU535U
		50000 2			CLA	TRALEV 2	TRALEY ENTRY	F3B05360
01006 -	0	12000 0	01013		IMI	M22013	IS IT START OF NEXT ENTRY 2	F3B05370

•				E2225.000
01007 -0 75400 2	00000	PXD 0+2	TRALEV ENTRY PT CT. IN ACC TRALEV WORD COUNT IS IT END OF TRALEV TABLE, YES 2,-1 NO, UPDATE TRALEV TABLE START OF NEXT ENTRY, SAVE COUNT OF TRALEV, BACK TO COMPILE INSTR. SAVE TRASTO ENTRY PT. INITIALIZE ADDCO OBTAIN TIFGO TYPE, TRANSFER TO ROUTINES IF(E)	F3805380
01010 0 40200 0	03210	SUB TRALEV-1	TRALEV WORD COUNT	F3B05390
01011 0 10000 0	01013	TZE M22013	IS IT END OF TRALEY TABLE, TES	F3805400
01012 1 77777 2	01005	TXI M22006+1,2	2,-1 NO, UPDATE TRALEV TABLE	F3D05410
01013 -0 63400 2	2 02347 M2201	S SXD ETRAL 2	STARI OF NEXT ENTRY SAVE COUNT	F3D05420
01014 0 02000 0	00523	TRA M21020	OF TRALEY, BACK TO COMPILE INSTR.	F3D05430
01015 -0 63400 2	02356 M2201	SXD ETRAST 2	SAVE TRASTO ENTRY PT.	F3BU344U
01016 0 50000 0	02274	CLA M2CON	INITIALIZE ADDCO	F3D05430
01017 0 60100 0	02333	STO ADDCO	TO ANGERD TO BOUTINES	F3005460
01020 0 50000 1	05472	CLA TIFGO 1	OBTAIN TIFGO TYPE + TRANSPER TO ROUTINES	F3B05410
01021 -0 12000 0	01360	TMI M22600	IF(E)	F3805400
01022 -0 32000 0	02306	ANA M2CON+10		F3B05470
01023 0 10000 0	01033	TZE M22020	GO TO A	F3B05510
01024 0 34000 0	02277	CAS M2CON+3		F3B05520
01025 1 77777 1	01344	TXI M22500 +1 +-	-1 IF OVERFLOW	F3805530
01026 1 77777 1	01252	TXI M22400 +1 +-	-1 IF DIV CR	F3B05540
01027 0 34000 0	02276	CAS M2CON+2	15 051105	F3805550
01030 1 77777 1	01236	TXI M22300 .1	-I IF SENSE	F3805560
01031 1 77777 1	01123	TXI M22200 11 -	-1 GO TO (A) +1	F3805570
01032 1 77777 1	01072	TXI M22100+1+-	-1 GO TO N (A)	F3B05580
		TIFGO ENTH	RY A GO TO A	F3805590
01033 0 50000 0	02345 M2202	CLA TIFFN	CURRENT TIFGO FMLA NO.	F3805600
01034 0 60100 0	02362 PAT1	STO M2CW	A THERENENT	F3805610
01035 0 50000 0	02301 PAT2	CLA M2CON+5	+10 INCREMENT	F3B05620
01036 0 60100 0	02360 PAT3	STO CLOC	FOR LOC WD OF 151 INSIR OF IRASIO BLOCK	F3B05630
01037 0 07400 4	01477 M2202	2 TSX M22750,4	IKASIO LEVANO SEARCH	F3805640
01040 0 07400 4	01560	TSX M22800 • 4	CURATIFICO LEVANOS IN TRASTO	F3805650
01041 -0 53400 2	2 02346	LXD CTRAST 2	CURATIFED NOANOT IN TRASTO	F3B05660
01042 1 77774 2	01043 M2202	7XI M22025+192	TOACTO EMIA NO CEADOU	F3B05670
01043 0 07400 4	01456	TSX M22700+4	TASSO FALLA NO NOT ACAIN FOUND	F3805680
01044 0 02000 0	01052	TRA M22035	TIECO EMIA NO AGAIN FOUND	F3805690
01045 0 50000 0	02333	CLA ADDCO	TIECO ENTRY NOT VET FOUND IN TRACTO	F3B05700
01046 0 10000 0	01037	TZE M22022	TIECO ENTRY ALDEADY FOUND IN TRASTO	F3R05710
01047 0 50000 0	02274	CLA MZCUN	AD HIST LOCATION WORD TO TERO	F3B05720
01050 0 60100 0	02362	\$10 M2CW	PACK TO LEVEL NO. SEARCH	F3B05730
01051 0 02000 0	01037	TRA M22022	NO. OF TIMES TIEGO ENTRY APPEARS IN TRASTO	F3B05740
01052 0 50000 0) 02333 M2203	TIE HIJOCO	TIEGO ENTRY NEVER FOUND IN TRASTO	F3B05750
01053 0 10000 0	01056	12E M22040	TIEGO ENTRY FOUND IN TRASTO	F3B05760
01054 0 50000 0	02311	CEA M2CUNTIS	+17000000000 • NEW LOC WORD	F3B05770
01055 0 60100 0	02362	310 M2CW	TIEGO RETA	F3805780
01056 0 50000 1	054/3 M2204	ALC 10	DIT INTO DECREMENT	F3B05790
01057 0 76700 0	00022	ALS 10	3DD WODD	F3B05800
01060 0 60100 0	02364	SIU MZCW+Z	COMPLE FINAL INSTRUCTION	F3B05810
01061 0 07400 4	02177	13X C1120094	17/81	F3B05820
01062 0 00000 0	02362	HIR MACH	TPA	F3B05830
01063 0 00000 0	7 02366	DIK MSCWTS	RETA	F3B05840
01064 0 00000 0	7 02304	HIN MICHAEL	7FR0	F3B05850
01065 0 00000 0	02214	IN PECON	UPDATE TRALEV ENTRY POINT	F3B05860
01066 -0 53400 2	2 02341	LAU EIRMEJA 1 tyl-majansnija	24=1	F3B05870
01067 1 77777 2	2 ULU/U M2205	7 INI MEZUDUTI94	UPDATE TRALEV TO NEXT ENTRY	F3B05880
01070 -0 63400 2	2 02347	3AU EIRALTA TVI M21000-1	-2 BACK TO TEST AGAINA	F3B05890
01071 1 77776 1	00503	TIEGO ENTE	RY A GO TO N (A)	F3B05900
0 50000 (0 022/E M2210	TIFGO ENTE	TRALEV WORD COUNT IS IT END OF TRALEV TABLE, YES NO, UPDATE TRALEV TABLE START OF NEXT ENTRY, SAVE COUNT OF TRALEV, BACK TO COMPILE INSTR. SAVE TRASTO ENTRY PT. INITIALIZE ADDCO OBTAIN TIFGO TYPE, TRANSFER TO ROUTINES IF(E) GO TO A 1	F3B05910
01072 0 50000 0	02345 MZZIV	CLA TIFFIN		

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	01073	0	76000 0	00002		CHS		MAKE LOCATION WORD POSITIVE	F3B05920
	01074	ŏ	60100 0	02362	PAT5	STO	M2CW		F3B05930
	01075	0	50000 0	02301	PAT6	CLA	M2CON+5	+10	F3B05940
	01076	0	60100 0	02360	PAT7	STO	CLOC	SAVE INCREMENT	F3B05950
	01077	0	07400 4	01477	M22105	TSX	M22750•4	TRASTO LEV NO SEARCH	F3805960
	01100	0	07400 4	01560		TSX	M22800•4	CUR TIFGO LEV NO.IN TRASTO	F3805970
	01101 -	-0	53400 2	02346		LXD	CTRAST • 2	CUR TIFGO LEV NO NOT IN TRASTO	F3B05980
	01102	1	77774 2	01103	M22110	TXI	M22110+1,2,-4	UPDATE TRASTO ENTRY POINT	F3B05990
	01103	0	07400 4	01456		TSX	M22700•4	TRASTO FMLA NO SEARCH	F3806000
	01104	0	02000 0	01112		TRA	M22120	TIFGO FMLA NO.NOT AGAIN FOUND	F3B06010
	01105	0	50000 0	02333		CLA	ADDCO	TIFGO FMLA NO.AGAIN FOUND	F3B06020
	01106	0	10000 0	01077		TZE	M22105	TIFGO ENTRY NOT YET FOUND IN TRASTO	F3B06030
	01107	0	50000 0	02274		CLA	M2CON	TIFGO ENTRY ALREADY FOUND IN TRASTO	F3B06040
	01110	0	60100 0	02362		STO	M2CW	ADJUST LOCATION WROD TO ZERO	F3B06050
	01111	0	02000 0	01077		TRA	M22105	BACK TO LEVEL NO. SEARCH	F3B06060
	01112 -	-0	53400 2	02347	M22120	LXD	ETRAL , 2	UPDATE TRALEV ENTRY POINT	F3B06070
	01113	0	50000 2	03211		CLA	TRALEV•2	BEGINNING OF TRALEV BLOCK	F3B06080
	01114 -	-0	12000 0	01121		TMI	M22130		F3B06090
	01115 -	-0	75400 2	00000		PXD	0 ; 2	TEST IF END OF TRALEV	F3B06100
	01116	0	40200 0	03210		SUB	TRALEV-1		F3B06110
	01117	0	10000 0	01121		TZE	M22130		F3B06120
	01120	1	77777 2	01113		TXI	M22120+1,2,-1	SPACE OVER TO NEXT ENTRY	F3B06130
	01121 -	-0	63400 2	02347	M22130	S XD	ETRAL 92	•	F3B06140
	01122	1	77777 1	00503		TXI	M21000 + 1 + - 1		F3B06150
							TIFGO ENTRY A G	O TO (A) • 1	F3806160
	01123	0	50000 1	05472	M22200	CLA	TIFGO:1	COMPUTE N+1 (CTRAD1- CTRAD2+1)	F3806170
	01124	0	73400 2	00000		PAX	0 , 2	STORE IN M2CW+3	F3B06180
	01125	-0	63400 2	02332		SXD	LOX,2	STORE COMPILING FIRST	F3B06190
	01126 -	-0	32000 0	02305		ANA	M2CON+9	INSTRUCTION	F3806200
	01127	0	40000 0	02303		ADD	M2CON+7		F3806210
	01130	0	40200 0	02332		SUB	LOX		F3806220
	01131	0	60100 0	02365		STO	M2CW+3		F3806230
	01132	0	76000 0	00006		COM		COMPUTE 25 COMP OF	F3806240
	01133	0	40000 0	02304		ADD	M2CON+8	N-1 IN ORDER TO	F3806250
	01134	0	62200 0	01140		STD	M22220	OBTAIN TRALEV ENTRY	F3806260
	01135 -	-0	53400 2	02347		LXD	ETRAL • 2	POINT FOR LAST ADDRESS	F3806270
	01136 -	-0	63400 2	01165		SXD	M22240+1 • 2		F3806280
	01137	-0	63400 2	01231		SXD	M22275+1,2		F3806290
	01140	1	00000 2	01141	M22220	TXI	M22220+1,2	TRANSIA SHITCH BY FOR LAST ADDRESS	F3806300
	01141 -	-0	63400 2	02357		SXD	NETRAL • 2	TRALEV. ENTRY PT. FUR LAST ADDRESS	F3B06310
	01142 -	-0	63400 2	02347		SXD	ETRAL,2	CURRENT TRALEY ENTRY PTO	F3006320
	01143	0	07400 4	02177		TSX	CIT200,4	COMPILE FIRST INSTRUCTION	F3806330
	01144	0	00000	02345		HTR	TIFFN	ALPHA	F3806340
	01145	0	00000	02274		HTR	M2CON	ZERO	F3D06330
	01146	0	00000	02345		HTR	TIFFN	ALPHA	F3006300
	01147	0	00000	02365		HTR	M2CW+3	TO TO LEVEL NO SEADON	E3006310
	01150	0	07400 4	01477	M22225	TSX	M22/5014	COD TIECO LEV NO IN TRACTO	F3806360
	01151	0	07400 4	02013		TSX	M23000+4	CUR TIECO LEV NO NOT IN TRACTO	E3006370
	01152	-0	53400 2	02346	400000	LXD	CIRASI #2	LUK IITUU LEV NU NUI IN IKASIU	F3806400
	01153	1	77774 2	01154	M22230	IXI	M2223U+1929**4	TRACTO EMIA NO CEARCH	E3806410
,	01154	0	07400 4	01456		ISX	M22/UU\$4	MAKE LOCATION WORD POSITIVE +10 SAVE INCREMENT TRASTO LEV NO SEARCH CUR TIFGO LEV NO.IN TRASTO CUR TIFGO LEV NO.IN TRASTO CUR TIFGO LEV NO.NOT IN TRASTO UPDATE TRASTO ENTRY POINT TRASTO FMLA NO.SEARCH TIFGO FMLA NO.AGAIN FOUND TIFGO ENTAY ALREADY FOUND IN TRASTO TIFGO ENTRY ALREADY FOUND IN TRASTO ADJUST LOCATION WROD TO ZERO BACK TO LEVEL NO. SEARCH UPDATE TRALEV ENTRY POINT BEGINNING OF TRALEV SPACE OVER TO NEXT ENTRY O TO (A).1 COMPUTE N+1 (CTRAD1- CTRAD2+1) STORE IN M2CW+3 STORE COMPILING FIRST INSTRUCTION COMPUTE 2S COMP OF N-1 IN ORDER TO OBTAIN TRALEV ENTRY POINT FOR LAST ADDRESS TRALEV. ENTRY PT. FOR LAST ADDRESS CURRENT TRALEV ENTRY PT. COMPILE FIRST INSTRUCTION ALPHA AZERO ALPHA NO. OF ADDRESS IN TRAD TRASTO LEVEL NO SEARCH COR TIFGO LEV NO NOT IN TRASTO CUR TIFGO FMLA NO.SEARCH FOUND TIFGO FMLA NO.SEARCH FOUND RESET CTRAST CELL FOR	F3806430
	01155	0	07400 4	02077		15%	M23U2U94	TIEGO EMIA NO AGAIN FOUND	F3R06440
	01156	0	02000 0	01150		IKA	MZZZZZ	DECET CEDACE CELL FOR	F3806450
	01157	0	5000.0	02356	M22235	CLA	EIRASI	KESET CIKASI CELL FOR	1 2000420

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	01160	0	60100 0	02346		STO	CTRAST	TIFGO ENTRY NEVER FOUND IN TRASTO RESET ETRAL FOR SECOND PASS THROUGH TRASTO INITIALIZE LOCATION COUNTER SET LOCATION WORD FOR FIRST TRASTO INSERT INITIALIZE ADDCO FOR TRASTO LEV*NO*SEARCH AND TRANSFER TO PERFORM TRASTO LEV*NO*SEARCH CUR TIFGO NO*NOT FOUND CUR TIFGO NO*NOT FOUND UPDATE TRASTO ENTRY POINT TRASTO FMLA NO*SEARCH TIFGO FMLA NO*SEARCH TIFGO FMLA NO*OSEARCH TIFGO ADD NOT YET FOUND IN TRASTO CUR*TIFGO ADD ALREADY FOUND IN TRASTO CUR*TIFGO ADD FOUND IN TRASTO CUR*TIFGO ADD*FOUND IN TRASTO CUPDATE LOCATION WORD CUR*TIFGO NEVER FOUND IN TRASTO CUPDATE LOCATION WORD FOR NEXT ENTRY BLOCK OF TRASTO UNSERTS RESET CTRAST FOR TRASTO LEV*NO**SEARCH UPDATE TRALEV ENTRY POINT DEACK TO NEXT TIFGO TIFGO NEXT TIFGO TIFSENSE UPDATE TRALEV ENTRY BACK TO NEXT TIFGO TIFSENSE UPDATE TRALEV COMPILE INFO** INSTRUCTION	F3B06460
	01161 -	Ō	53400 2	02347		LXD	ETRAL 2	UPDATE TRALEV ENTRY POINT	F3B06470
	01162	1	00001 2	01163		TXI	M22240-1,2,1	,	F3B06480
	01163 -	0	63400 2	02347		SXD	ETRAL • 2		F3B06490
	01164 -	3	00000 2	01166	M22240	TXL	M22240+2,2,0		F3B06500
	01165 -	3	00000 2	01150		TXL	M22225 • 2		F3B06510
	01166	Ď	50000 0	02333		CLA	ADDCO		F3B06520
	01167	Ď	10000 0	01232		TZE	M22275+2	TIFGO ENTRY NEVER FOUND IN TRASTO	F3B06530
	01170 -	٥	53400 2	02357		LXD	NETRAL #2	RESET ETRAL FOR SECOND	F3B06540
	01177 -	0	63400 2	02347		SXD	ETRAL + 2	PASS THROUGH TRASTO	F3B06550
	01172	Ď	50000 G	02301		CLA	M2CON+5	INITIALIZE LOCATION	F3B06560
	01173	٥	60100 0	02360		STO	CLOC	COUNTER	F3B06570
	01174	0	60100 0	02362		STO	M2CW	SET LOCATION WORD FOR FIRST	F3B06580
	01175	n	50000 0	02345	M22245	CLA	TIFFN	TRASTO INSERT	F3B06590
	01176 -	ō	60200 0	02362		ORS	M2CW		F3B06600
	01177	n	50000 0	02274		CLA	M2CON	INITIALIZE ADDCO FOR	F3B06610
	01200	n	60100 0	02333		STO	ADDCO	TRASTO LEV.NO.SEARCH AND TRANSFER TO PERFORM	F3B06620
	01200	n.	07400 4	01477	M22250	TSX	M22750 • 4	TRASTO LEV.NO.SEARCH	F3B06630
	01202	ñ	07400 4	01560		TSX	M22800 • 4	CUR TIFGO LEV NO FOUND	F3B06640
	01202	ñ	53400 2	02346		LXD	CTRAST • 2	CUR TIFGO NO.NOT FOUND	F3B06650
	01205	1	77774. 2	01205	M22255	TXI	M22255+1 • 2 • -4	UPDATE TRASTO ENTRY POINT	F3B06660
	01204	'n	07400 4	01456	***************************************	TSX	M22700 • 4	TRASTO FMLA NO.SEARCH	F3B06670
	01205	n	01400 4	01214		TRA	M22265	TIFGO FMLA NO.NOT AGAIN FOUND	F3B06680
	01200	n	50000 0	02333		CLA	ADDCO	TIFGO FMLA NO.AGAIN FOUND	F3B06690
	01210	n	10000 0	01201		TZE	M22250	CUR TIFGO ADD NOT YET FOUND IN TRASTO	F3B06700
	01210	n	50000 0	02274		CLA	M2CON	CURTIFGO ADD ALREADY FOUND IN TRASTO	F3B06710
	01212	ň	60100 0	02362		STO	M2CW	ADJUST LOCATION WORD	F3B06720
	01212	n	03000 0	01201		TRA	M22250		F3806730
	01213	n	50000 0	02333	M22265	CLA	ADDCO		F3B06740
	01215	n	10000 0	. 01223		TZE	M22270	CUR. TIFGO NEVER FOUND IN TRASTO	F3B06750
	01216	n	07400 4	02163		TSX	M23075 • 4	CUR. TIFGO ADD. FOUND IN TRASTO	F3806760
	01217	Ö	50000 0	02360		CLA	CLOC	UPDATE LOCATION WORD FOR NEXT ENTRY	F3B06770
	01220	n	40000 0	02301		ADD	M2CON+5	BLOCK OF TRASTO UNSERTS	F3B06780
	01221	n	60100 0	02360		STO	CLOC		F3B06790
	01222	n	60100 0	02362		STO	M2CW		F3B06800
	01223	Ď	50000 0	02356	M22270	CLA	ETRAST	RESET CTRAST FOR TRASTO	F3B06810
	01224	n	60100 0	02346		STO	CTRAST	LEV. NO. SEARCH	F3B06820
	01225 -	Ô	53400 2	02347		LXD	ETRAL + 2	UPDATE TRALEV ENTRY POINT	F3B06830
	01226	1	00001 2	01227		TXI	M22275-1,2,1		F3B06840
	01227 -	Ô	63400 2	02347		SXD	ETRAL . 2		F3B06850
	01230 -	3	00000 2	01232	M22275	TXL	M22275+2,2,0		F3B06860
	01231 -	3	00000 2	01175		TXL	M22245 • 2		F3B06870
	01232 -	ń	53400 2	02357		LXD	NETRAL . 2	UPDATE TRALEV ENTRY POINT	F3B06880
	01232	1	77777 2	01234		IXT	M22280,2,-1	FOR NEXT TIFGO ENTRY	F3B06890
errer er	01234 -	<u>-</u>	63400 2	02347	M22280	SXD	ETRAL 2	TO SERVICE CONTRACTOR OF THE PROPERTY OF THE P	F3B06900
	01235	ĭ	77777 1	00503		TXI	M21000 • 1 • - 1	BACK TO NEXT TIFGO	F3B06910
	ULESS	•		00707			TIFGO ENTRY AN	IF SENSE	F3B06920
	01236 -	n	53400 2	02347	M22300	LXD	ETRAL 2	UPDATE TRALEV	F3B06930
	01230	n	63400 2	01165		SXD	M22240+1.2		F3B06940
	01240 -	ñ	63400 2	01231		SXD	M22275+1,2		F3B06950
	01240	1	77777 2	01242	M22305	TXI	M22305+1,2,-1		F3B06960
	01242 -	ò	63400 2	02357		SXD	NETRAL +2		F3B06970
	01242	Ô	63400 2	02347		SXD	ETRAL • 2		F3B06980
	01245	Ď	07400 4	02177		TSX	C1T200•4	COMPILE INFO. INSTRUCTION	F3B06990
	01244	•	V1700 4	AF # 1 1		. 5.4			

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				UTD	TIEEN	AL DUA	F3B07000
01245 0	00000	0 02343		U T D	MOCON	ZERO	F3B07010
01246 0	00000	0 02217		UTD	Macon	ZERO	F3B07020
01247 0	00000	0 02214		HIN	MACON	7 EPO	F3B07030
01250 0	00000	0 02214		704	M22225	TRACTO LEVEL NO. SEARCH	F3B07040
01251 0	02000	0 01150		IKA	M22227	TRASTO LEVEL NOT SEARCH	F3807050
<u>k</u>					TIFGO ENIRY AN	IF DIV CK	E3807040
01252 -0	53400	2 02347	M22400	LXD	ETRAL • 2	UPDATE TRALEV	F3007000
01253 1	77776	2 01254		TXI	M22400+2,2,-2		5000000
01254 -0	63400	2 01277		SXD	M22425+1+2		F3807080
01255 -0	63400	2 01342		SXD	M22465+1•2		F3B07090
01256 0	07400	4 02177		TSX	CIT200,4	COMPILE INFO. INSTRUCTION	F3B07100
01257 0	00000	0 02345		HTR	TIFFN	ALPHA	F3B07110
01260 0	00000	0 02274		HTR	M2CON	ZERO	F3B07120
01261 0	00000	0 02274		HTR	M2CON	ZERO	F3B07130
01262 0	00000	0 02274		HTR	M2CON	ZERO	F3B07140
01202 0	07400	4 01477	M22410	TSX	M22750 • 4	TRASTO LEVEL NO SEARCH	F3B07150
01265 0	07400	4 02012	1122420	TSX	M23000+4	CURA TIFGO LEVEL NOA IN TRASTO	F3B07160
01264 0	53400	2 02013		IXD	CTRAST 42	CURA TIFGO LEVEL NOA NOT IN TRASTO	F3B07170
01265 -0	77774	2 02340	M22415	TVI	M22415+1.24	LIDDATE TRASTO ENTRY POINT	F3B07180
01266 1	11114	2 01201	M22413	TCV	M22700-4	TRASTO EMIA. NO. SEARCH	F3B07190
01267 0	07400	4 01456		TON	M2270014	TIECO EM A. NO NOT AGAIN FOUND	F3807200
01270 0	07400	4 02077		15%	M2305094	TIEGO FMLAS NO AGAIN FOUND	F3807210
01271 0	02000	0 01263		IRA	M22410	DECET CERTIFICATION AGAIN FOUND	F3B07220
01272 0	50000	0 02356	M22420	CLA	ETRAST	RESEI CIRASI CELL FOR	F2007220
01273 0	60100	0 02346		STO	CTRAST	TRASTO LEVEL NO. SEARCH	F3007230
01274 -0	53400	2 02347		LXD	ETRAL 2	UPDATE TRALEV ENTRY POINT	F3007250
01275 1	77777	2 01276		IXT	M22425,2,-1		F3807250
01276 -0	63400	2 02347	M22425	SXD	ETRAL • 2	•	F3807260
01277 3	00000	2 01263		TXH	M22410•2		F3B07270
01300 0	50000	0 02333		CLA	ADDCO		F3807280
01301 0	10000	0 01343		TZE	M22465+2	TIFGO ENTRY NEVER FOUND IN TRASTO	F3B07290
01302 1	00002	2 01303		TXI	M22430,2,2	RESET ETRAL FOR SECOND	F3B07300
01303 -0	63400	2 02347	M22430	SXD	ETRAL . 2 .	PASS THROUGH TREASTO	F3B07310
01304 0	50000	02301		CLA	M2CON+5	INITIALIZE LOCATION	F3B07320
01305 0	60100	0 02360		STO	CLOC	COUNTER	F3B07330
01305 0	60100	0 02362		STO	M2CW	SET LOCATION WORD FOR	F3B07340
01300 0	50000	0 02302	M22435	CLA	TIFFN	FIRST TRASTO INSERT	F3B07350
01307 0	40300	0 02343	1162777	OPS	M2CW		F3B07360
01310 -0	50200	0 02302		CLA	M2CON	INITIALIZE ADDCO FOR	F3B07370
01311 0	50000	0 02274		CIA	ADDCO	TRASTO LEV NO SEARCH	F3B07380
01312 0	60100	0 02333	W22440	310	M22750.4	TRASTO LEV NO SEARCH	F3B07390
01313 0	07400	4 014//	M22440	TEV	M2273014	CUR TIEGO LEV NO FOUND IN TRASTO	F3B07400
01314 0	07400	4 01560		134	M2280094	CUP TIEGO LEV NO NOT FOUND IN TRASTO	F3B07410
01315 -0	53400	2 02346		LXD	CIRASI 12	LIBOATE TRACTO ENTRY DOINT	F3B07420
01316 1	77774	2 0131/	M22445	IXI	M22445+1929-4	TOACTO ENIA NO SEADOU	F3807430
01317 0	07400	4 01456		ISX	M22/00+4	TIECO EM A NO NOT ACAIN ECHNO	F3B07440
01320 0	02000	0 01326		TRA	M22455	TIFGO FMLA NO NOT AGAIN FOUND	F3D07450
01321 0	50000	0 02333		CLA	ADDCO	TIFGO FMLA NO AGAIN FOUND	F3001 4 30
01322 0	10000	0 01313		TZE	M22440	CUR TIFGO ADD NOT YET FOUND IN TRASIC	7F 3DU 140U
01323 0	50000	0 02274		CLA	M2CON	CUR TIFGO ENTRY ALREADY FOUND IN TRAS	52507470
01324 0	60100	0 02362		STO	M2CW	ALPHA ZERO ZERO ZERO ZERO ZERO ZERO ZERO TRASTO LEVEL NO. SEARCH IF DIV CK UPDATE TRALEV COMPILE INFO. INSTRUCTION ALPHA ZERO ZERO ZERO ZERO ZERO ZERO ZERO ZERO	F 380 /480
01325 0	02000	0 01313		TRA	M22440	TRASTO LEV. NO. SEARCH	F 380 7490
01326 0	50000	0 02333	M22455	CLA	ADDCO		F3B07500
01327 0	10000	0 01335		TZE	M22460	CUR TIFGO ADD NEVER FOUND IN TRASTO	F3B07510
01330 0	07400	4 02163		TSX	M23075,4	CUR TIFGO ADD FOUND IN TRASTO	F3B07520
01331 0	50000	0 02360		CLA	CLOC	UPDATE LOCATION WORD FOR	F3B07530
~ * ~ ~ ~ ~ ~ ~	2000						

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							WENT OF TOTAL THEFT	E20075/0
01332 0	40000 0	02301		ADD	M2CON+5		NEXT BLOCK OF TRASTO INSERTS	F3807550
01333 0	60100 0	02360		STO	CLOC			F3007540
01334 0	60100 0	02362		STO	M2CW			F3007570
01335 0	50000 0	02356	M22460	CLA	ETRAST		RESET CTRAST FOR TRASTO LEV	F3807570
01336 0	60100 0	02346		STO	CTRAST		NO SEARCH	F3B07580
01337 -0	53400 2	02347		LXD	ETRAL 2		UPDATE TRALEV ENTRY	F3B07590
01340 1	77777 2	01341		TXI	M22465,2,-1		POINT	F3B07600
01340 -0	63400 2	02347	M22465	SXD	ETRAL 2			F3B07610
01341 -0	00000 2	01307	1122702	TXH	M22435 • 2	TEST EN	OF TRALEV ENTRIES .	F3B07620
01342 3	77777 1	00503		TXI	M21000 • 1 • - 1	NEXT TI	FGO•	F3B07630
01343 1	iiii I	00000			TIEGO ENTRY AN	IF OVERFI	.OW	F3B07640
	50400 3	03267	M22500	1 VD	ETPAL 2	INITIAL	ZE AND RECORD END OF	F3B07650
01344 -0	53400 2	02341	M22500	TVI	M2250012.2.2.	TRAIFV	ENTRY	F3B07660
01345 1	77176 2	01346		IXI	M22425+1.2	INALLY		F3B07670
01346 -0	63400 2	01277		270	M224257192			F3807680
01347 -0	63400 2	01342		SXD	M22465+192		TRACTO LEV NO SEADCH	F3807690
01350 0	07400 4	01477	M22505	TSX	M2275094		TRASTO LEV NO STARCH	F3B07700
01351 0	07400 4	02027	COR12	TSX	M23025 • 4		CUD TIECO LEV NO NOT IN TRACTO	F2007700
01352 -0	53400 2	02346		LXD	CTRAST • 2		CUR TIFGO LEV NO NOT IN TRASTO	F3807710
01353 1	77774 2	01354	M22510	TXI	M22510+1,2,-4		UPDATE TRASTO ENTRY POINT	F3807720
01354 0	07400 4	01456		TSX	M22700 • 4		TRASTO FMLA NO SEARCH	F3B07730
01355 0	07400 4	02113		TSX	M23060 • 4		TRASTO FMLA NO NOT AGAIN FOUND	F3B07740
01356 0	02000 0	01350		TRA	M22505		TRASTO FMLA NO AGAIN FOUND	F3B07750
01357 0	02000 0	01272		TRA	M22420	CONTINUE	AS IN DVCH.	F3B07760
01351 0	02000 0	V14.1		• • • • •	TIFGO ENTRY AN	IF (E)		F3B07770
	E2400 2	02247	M22600	LYD	FTRAL .2	PERMUTE	WDS. OF THIS TRALEV ENTRY	F3B07780
01360 -0	55400 2	02341	MZ2000	CLA	TRALEVA2	SO THAT	,	F3B07790
01361 0	50000 2	03211		SIO	CAVE	41 A A 2 A	A3. RECOMES A2. A3. A1	F3B07800
01362 0	60100 0	02361		310	7DALEV41.2	WIT WET	A2 FIDST	F3807810
01363 0	50000 2	03212		CLA	TOALENTASA		AZ FIRST	F3B07820
01364 0	60100 2	03211		510	TRALEVIZ		A2 SECOND	F3807830
01365 0	50000 2	03213		CLA	IRALEV+292		NO SECOND	F3807840
01366 0	60100 2	03212		\$10	TRALEV+1.2		41 741700	F3B07850
01367 0	50000 0	02361		CLA	SAVE		AI IHIKU	F3007040
01370 0	60100 2	03213		STO	TRALEV+2,2			F2007070
01371 1	77775 2	01372	M22610	TXI	M22610+1,2,-3			E3007000
01372 -0	63400 2	01342		SXD	M22465+1•2			F2007000
01373 0	07400 4	02177		TSX	CIT200,4		COMPILE INFO INSTRUCTION	F 3B0 7890
01374 0	00000 0	02345		HTR	TIFFN	ALPHA		F3B07900
01375 0	00000	02274		HTR	M2CON	ZERO		F3B07910
01376 0	00000	02274		HTR	M2CON	ZERO	•	F3B07920
01370 0	00000	02274		HTR	M2 CON	ZERO	•	F3B0 79 30
01311 0	07400 4	01477	M22620	TSX	M22750+4		RESET CTRAST FOR TRASTO LEV NO SEARCH UPDATE TRALEV ENTRY POINT OF TRALEV ENTRIES • FGO• .OW LZE AND RECORD END OF ENTRY TRASTO LEV NO SEARCH CUR TIFGO LEV NO NOT IN TRASTO UPDATE TRASTO ENTRY POINT TRASTO FMLA NO SEARCH TRASTO FMLA NO AGAIN FOUND E AS IN DVCH• WDS• OF THIS TRALEV ENTRY A3 BECOMES A2 • A3 • A1 A2 FIRST A3 SECOND A1 THIRD COMPILE INFO INSTRUCTION TRASTO FMLA NO SEARCH CUR TIFGO LEV NO FOUND IN TRASTO UPDATE TRASTO ENTRY POINT TRASTO FMLA NO SEARCH TRASTO FMLA NO SEARCH TRASTO FMLA NO SEARCH TRASTO FMLA NO SEARCH TRASTO FMLA NO AGAIN FOUND TRASTO FMLA NO AGAIN FOUND RESET CTRAST CELL FOR TRASTO LEV NO SEARCH UPDATE TRALEV ENTRY POINT TRASTO LEVEL NO SEARCH UPDATE TRALEV ENTRY POINT TRASTO LEVEL NO SEARCH CUR TIFGO LEV NO FOUND IN TRASTO	F3B07940
01400 0	07400 4	02042	MEZOLO	TSX	M23035+4		CUR TIFGO LEV NO FOUND IN TRASTO	F3B07950
01401 0	52400 4	02045		1 40	CTRAST.2		CUR TIFGO LEV NO NOT FOUND IN TRASTO	F3B07960
01402 -0	53400 2	02346	W22425	TVI	M22625+1+2+-4		UPDATE TRASTO ENTRY POINT	F3B07970
01403 1	17114 2	01404	MZZOZO	TCV	M22700-4		TRASTO FMI A NO SEARCH	F3B07980
01404 0	07400 4	01456		154	M2270094		TRACTO EMIA NO NOT AGAIN FOUND	F3807990
01405 0	07400 4	02127		15%	M23003\$4		TOACTO EMIA NO AGAIN FOIND	F3B08000
01406 0	02000 0	01400		TRA	M22620		DECET CIDACT CELL FOR	F3B08010
01407 0	50000 0	02356	M22630	CLA	ETRAST		RESEL CIRASI CELL FUR	F3000010
01410 0	60100 0	02346		\$TO	CTRAST		IRASIU LEV NU SEAKCH	F3000020
01411 -0	53400 2	02347		LXD	ETRAL # 2		UPDATE TRALEV	L 2B08030
01412 1	77777 2	01413		TXI	M22635,2,-1		ENTRY POINT	F 3808040
01413 -0	63400 2	02347	M22635	SXD	ETRAL + 2		•	F3B08050
01414 0	07400 4	01477	M22640	TSX	M22750 • 4		TRASTO LEVEL NO SEARCH	F3B08060
01415 0	07400 4	02062		TSX	M23040 • 4		CUR TIFGO LEV NO FOUND IN TRASTO	F3B08070
01410 0	U1-00 -	02002						,

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01416 -0	53400 4	02346		LXD	CTRAST • 4	CUR TIFGO LEV NO NOT FOUND IN TRASTO UPDATE TRASTO ENTRY POINT TRASTO FMLA NO SEARCH TIFGO FMLA NO NOT AGAIN FOUND TIFGO FMLA NO AGAIN FOUND RESET CTRAST CELL FOR TRASTO LEV NO SEARCH UPDATE TRALEV ENTRY POINT SET ADDCO FOR TRA ADDRESS TRASTO LEV NO SEARCH CUR TIFGO LEV NO FOUND IN TRASTO CUR TIFGO LEV NO FOUND IN TRASTO CUR TIFGO LEV NO NOT FOUND TRASTO FMLA NO SEARCH TIFGO FMLA NO NOT AGAIN FOUND TIFO FMLA NO AGAIN FOUND TIFO FMLA NO AGAIN FOUND TIFO FMLA NO AGAIN FOUND UPDATE TRALEV ENTRY POINT FOR NEXT TIFGO ENTRY RESET CTRAST FOR SECOND PASS THROUGH TRASTO RESET CTRAST FOR SECOND PASS THROUGH TRASTO INITIALIZE LOCATION UTINES SEARCH PLACE COUNT OF TRALEV ENTRY IN AC. TRASTO WORD COUNT EQUAL. TR BACK TRASTO ENTRY SAVE DECREMENT SHIFT B TO DECREMENT PORTION CURRENT TIFGO FMLA NO. TRASTO GREATER THAN TIFGO, BACK TO BRING NEXT TRASTO EQUAL TO TIFGO FMLA NO TRASTO LESS THAN TIFGO, BACK TO BRING NEXT TRASTO ENTRY MASK OUT ADDRESS INTERNAL FORMULA NO. ALPHA TRASTO TRASTO NOT FOUND SEARCH	F3B08080
01417 1	77774 2	01420		TXI	M22645 , 2 , -4	UPDATE TRASTO ENTRY POINT	F3B08090
01420 0	07400 4	01456	M22645	TSX	M22700 • 4	TRASTO FMLA NO SEARCH	F3B08100
01421 0	07400 4	02147		TSX	M23070•4	TIFGO FMLA NO NOT AGAIN FOUND	F3B08110
01422 0	02000 0	01414		TRA	M22640	TIFGO FMLA NO AGAIN FOUND	F3B08120
01423 0	50000 0	02356	M22650	CLA	ETRAST	RESET CTRAST CELL FOR	F3B08130
01424 0	60100 0	02346		STO	CTRAST	TRASTO LEV NO SEARCH	F3808140
01425 -0	53400 2	02347		LXD	ETRAL 92		F3808150
01426 1	77777 2	01427		TXI	M22655,2,-1	UPDATE TRALEV	F3B08160
01427 -0	63400 2	02347	M22655	SXD	ETRAL + 2	ENTRY POINT	F3B08170
01430 0	50000 0	02333		CLA	ADDCO	SET ADDCO FOR	F3808180
01431 0	40000 0	02301		ADD	M2CON+5	TRA ADDRESS	F3808190
01432 0	60100 0	02333		STO	ADDC0		F3808200
01433 0	07400 4	01477	M22660	TSX	M22750•4	TRASTO LEV NO SEARCH	F3000210
01434 0	07400 4	02013		TSX	M23000•4	CUR TIFGO LEV NO FOUND IN TRASTO	F3BU8ZZU
01435 -0	53400 2	02346		LXD	CTRAST • 2	CUR TIFGO LEV NO NOT FOUND IN TRASTO	F3B08230
01436 1	77774 2	01437		IXT	M22665,2,-4	UPDATE TRASTO ENTRY POINT	F3D08240
01437 0	07400 4	01456	M22665	TSX	M22700•4	TRASTO FMLA NO SEARCH	F3BU8Z3U
01440 0	07400 4	02077		TSX	M23050•4	TIFGO FMLA NO NOT AGAIN FOUND	F3BU826U
01441 0	02000 0	01433		TRA	M22660	TIFO FMLA NO AGAIN FOUND	F3D00210
01442 -0	53400 2	02347		LXD	ETRAL • 2	WALLE TO A THE THEORY DOINT	F3800200
01443 1	77777 2	01444		TXI	M22670,2,-1	UPDATE TRALEV ENTRY POINT	F3B08290
01444 -0	63400 2	02347	M22670	SXD	ETRAL,2	FOR NEXT TIPGO ENTRY	F3B08310
01445 0	50000 0	02333		CLA	ADDCO		F3B08320
01446 0	40200 0	02301		SUB	M2CON+5		F3808330
01447 0	10000 0	00535	COR13	TZE	M21030-1	DECET ETDAL EOD	F3B08340
01450 1	00003 2	01451		TXI	M22675,2,3	RESEL FIRML FOR	F3B0B350
01451 -0	63400 2	02347	M22675	SXD	ETRAL 52	DECET CIPACT FOR SECOND	F3B08360
01452 0	50000 0	02356		CLA	EIRASI	DACE TURNING TRACTO	F3B08370
01453 0	60100 0	02346		\$10	CTRASI	THITTALIZE SOCATION	F3808380
01454 0	50000 0	02302		CLA	M2CON+6	INTITALIZE ECCATION	F3B08390
01455 1	77777 1	01305		IXI	M22435-2919-1	IT TAKE C	F3B08400
					M2 CLOSED SUBRU	OF ARCH	F3B08410
					TRASTO FMLA NO	DEACE COUNT OF TRALEY FATRY IN ACA	F3B08420
01456 -0	75400 2	00000	M22700	EVID.	TBACTO-1	TRACTO WORD COUNT	F3B08430
01457 0	40200 D	02367		506	IRASIO-I	FOUNT TR BACK	F3B08440
01460 0	10000 4	00001		126	TDASTO 2	TRASTO FNTRY	F3B08450
01461 0	50000 2	02370		ANA	M2CON+10	SAVE DECREMENT	F3B08460
01462 -0	32000 0	02300		ANA	10	SHIFT B TO DECREMENT PORTION	F3B08470
01463 0	10100 0	00042		CAS	TIFFN	CURRENT TIFGO FMLA. NO.	F3B08480
01464 0	02000 0	01670		TPA	M22710	TRASTO GREATER THAN TIFGO	F3B08490
01465 0	02000 0	01470		TDA	M22715	TRASTO EQUAL TO TIFGO FMLA NO	F3B08500
01466 0	77774 2	01475		TYT	M22700 • 2 • - 4	TRAS TO LESS THAN TIFGO, BACK TO BRING NEXT	F3B08510
0146/ 1	50000 2	01430	M22710	CLA	TRASTO•2	TRASTO ENTRY	F3B08520
01470 0	33000 2	02310	1122110	ANA	M2CON+9	MASK OUT ADDRESS	F3B08530
01471 -0	34000 0	02345		CAS	TIFEN	INTERNAL FORMULA NO. ALPHA	F3B08540
01472 1	7777/ 2	01454		TYI	M22700 • 2 • - 4	TRASTO	F3B08550
01475 1	77774 2	01456		TXT	M22700+2+-4		F3B08560
01474 1	63400 2	02346	M22715	SXD	CTRAST+2		F3B08570
01475 -0	03400 2	00002		TRA	2•4	TRASTO NOT FOUND	F3B08580
01410 0	32000 T	777 02			TRASTO LEVEL NO	TRAS TO LESS THAN TIFGO, BACK TO BRING NEXT TRASTO ENTRY MASK OUT ADDRESS INTERNAL FORMULA NO. ALPHA TRASTO TRASTO TRASTO NOT FOUND SEARCH TR COUNT STORED FOR LINKAGE CURRENT TRALEV ENTRY PT. IN IR 2	F3B08590
01477 -0	63400 4	02331	M22750	SXD	CBOX • 4	TR COUNT STORED FOR LINKAGE	F3B08600
01500 =0	53400 2	02347		LXD	ETRAL 2	CURRENT TRALEV ENTRY PT. IN IR 2	F3B08610
01200 -0	J3400 Z	02341		- 10			

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										50500400
	01501	0	50000 2		03211		CLA	TRALEV • 2	LOAD TRALEV WORD	F3808620
	01502	0	62100 0	• (02350		STA	LEVNO	CURRENT LEVEL NO.	F3808630
	01503 -	0	53400 2	•	02346		LXD	CTRAST • 2	CURRENT TRASTO ENTRY PT.	F3808640
	01504	0	50000 0	(02340		CLA	TWOL	TWOS COMPLIMENT OF NO OF WDS. IN DEC. FIELD	F3808650
	01505	0	10000 0	(01527		TZE	M22770	TYPE 2	F3B08660
	01506	0	50000 0	(02346		CLA	CTRAST	CURRENT TRASTO ENTRY PT.	F3B08670
	01507 -	0	10000 0	•	01513		TNZ	M22760		F3808680
	01510	0	50000 0	•	02337		CLA	ONEL	TYPE 1	F3B08690
	01511	0	10000-0	0	01550		TZE	M22787		F3B08700
	01512	0	02000 0	Ò	01527		TRA	M22770		F3B08710
	01513	Ď	50000 0	Ò	02337	M22760	CLA	ONEL	TEST TYPE 1	F3B08720
•	01514 -	n.	10000 0		01524		TNZ	M22767		F3B08730
	01515	n	40000 0		12340	M22762	ADD	TWOL	NO. OF TYPE 2	F3B08740
	01516 -	n	73400 4		00000		PDX	0.4		F3B08750
	01517 -	'n	75400 4		20000		PXD	0.4		F3B08760
	01517	n	24000 A		12346		CAS	CTRAST	COMPARE	F3B08770
	01520		02000 0		11527		TRA	M22770	TOTAL PARE	F3B08780
	01522	^	02000 0		11527		TDA	M22770		F3B08790
	01522	~	02000 0		11521		TDA	M22707		F3B08800
	01523	0	02000 0		71550	W22747	CAS	CTDACT	•	F3B08810
	01524	•	34000 0		12340	M22101	CAS	CIRASI MARATA		F3B08820
	01525	0	02000 0	0	11212		IKA	M22102		F3808830
•	01526	0	02000 0	C	01515		IKA	M22162	LEUEL NOC	E3000000
	01527	0	50000 2	C	02371	M22770	CLA	TRASTO+1,2	LEVEL NOS.	F3000040
	01530 -0	0	32000 0	0	2306		ANA	M2CON+10	SAVE ADDRESS, IEST UPPER LEVEL	F3808830
	01531	0	34000 0	C	02350		CAS	LEVNO .	COMPARE TO CURRENT TIFGO LEVEL NO.	F3808860
	01532	0	02000 0	0	1535		TRA	M22777	LESS THAN	F3808870
	01533	0	02000 0	0	1556		TRA	M22795		F3B08880
	01534	0	02000 0	C	1556		TRA	M22795		F3B08890
	01535	0	50000 2	C	2371	M22777	CLA	TRASTO+1,2	LEVEL NOS.	F3808900
	01536 -0	0	32000 0	C	02305		ANA	M2CON+9	SAVE DECREMENT	F3B08910
,	01537	0	77100 0	€	00022		ARS	18	PLACE IN ADDRESS	F3B08920
	01540	0	34000 0	C	2350		CAS	LEVNO	CURRENT TIFGO LEVEL NO.	F3B08930
	01541	0	02000 0	0	1556		TRA	M22795	EXIT, NOT FOUND	F3B08940
	01542	0	02000 0	0	01543		TRA	M22783	EQUAL TO OR GREATER THAN	F3B08950
	01543	0	50000 0	0	2333	M22783	CLA	ADDCO	NO. OF TIMES TIFGO APPEARS	F3B08960
	01544	0	40000 0	0	02301		ADD	M2CON+5	ADD 10(8) INCREMENT	F3B08970
	01545	0	60100 0	0	2333		STO	ADDCO	RESTORE	F3B08980
	01546 -0	0	53400 4	Č	2331		LXD	CBOX+4	RESTORE LINKAGE, LEVEL NO.	F3B08990
	01547	0	02000 4	ō	00001		TRA	1.4	FOUND.	F3B09000
	01550	Ó	50000 2	0	2372	M22787	CLA	TRASTO+2,2	TAGS, WORD 3, TYPE 2 LEVEL NO.	F3B09010
	01551 -0	0	32000 0	Ö	2305		ANA	M2CON+9	SAVE DECREMENT	F3B09020
	01552	n .	77100 0	0	00022		ARS	18	SHIFT TO ADDRESS	F3B09030
	01552	o o	34000 0	Č	12350		CAS	LEVNO	COMPARE LEVEL NO.	F3B09040
	01554 (_	02000 0	_	11543		TRA	M22783		F3B09050
	01555	n i	02000 0		11556		TRA	M22795		F3B09060
	01554 ~	ָ ה	52400 4		12221	M22795	LXD	CBOX • 4	•	F3B09070
	01567	0	02000 4	-	75221		TRA	2.4	NOT FOUND. BACK TO MAIN ROUTINE	F3B09080
	OTSS!		02000-4		00002		inn	INDEXING INSTRU	CTION COMPILER	F3B09090
	01540 -4	^	62600 6	_	12221	иззолл	CVD	CROY A	SAVE COUNT IN 4 FOR LINKAGE	F3B09100
	01560 -6	0	62400 4 62400 2		72331	M22000	2 Y D	M2CON 2	PLACE ZERO IN TR 2	F3B09110
	01561	0	554UU Z	0	12214		CLA	CTDAST	CURRENT TRASTO ENTRY POINT	F3B09120
	01562	0	10000 0	0	12340		TNZ	M22810	COMMENT INVOICEMENT FORM	F3809130
	01563 -0	0	10000 0	0	11201	MAZONE	CLA	UNET - 2	LENGTH OF TYPE 1 ENTRY FIC.	F3B09140
	U1564 (•	10000 2	0	12331	m220U2	TAIZ	M22810.2	FNTDIFC FYICT	F3809150
	01303 -(J	10000 2	Ü	11000		1112	PIZZO17 7Z	LOAD TRALEV WORD CURRENT LEVEL NO. CURRENT TRASTO ENTRY PT. TWOS COMPLIMENT OF NO OF WDS. IN DEC. FIELD TYPE 2 CURRENT TRASTO ENTRY PT. TYPE 1 TEST TYPE 1 NO. OF TYPE 2 COMPARE LEVEL NOS. SAVE ADDRESS, TEST UPPER LEVEL COMPARE TO CURRENT TIFGO LEVEL NO. LESS THAN LEVEL NOS. SAVE DECREMENT PLACE IN ADDRESS CURRENT TIFGO LEVEL NO. EXIT, NOT FOUND EQUAL TO OR GREATER THAN NO. OF TIMES TIFGO APPEARS ADD 10(8) INCREMENT RESTORE RESTORE LINKAGE, LEVEL NO. FOUND. TAGS, WORD 3, TYPE 2 LEVEL NO. SAVE DECREMENT SHIFT TO ADDRESS COMPARE LEVEL NO. NOT FOUND, BACK TO MAIN ROUTINE TION COMPILER SAVE COUNT IN 4 FOR LINKAGE PLACE ZERO IN IR 2 CURRENT TRASTO ENTRY POINT LENGTH OF TYPE 1 ENTRY ETC. ENTRIES EXIST	

01566	1	77777 2	01564		IXT	M22805,2,-1	GET NEXT TYPE ENTRY		F3B09160
01567	0	50000 0	02274	M22810	CLA	M2CON	ZERO IN ACC.		F3809170
01570	0	40000 2	02337		ADD	ONEL • 2	LENGTH OF TYPE 1 ENTRY ETC		F3809180
01571	-0	73400 4	00000		PDX	0 • 4	PLACE THIS RESULT INIR 4		F3809190
01572	-0	75400 4	00000		PXD	0 • 4	PUT BACK IN ACC., CLEARING ADDRESS		F3B09200
01573	0	10000 0	01577		TZE	M22815			F3809210
01574	0	40200 0	02346		SUB	CTRAST	CURRENT TRASTO ENTRY POINT		F3809220
01575	-0	12000 2	01600		TMI	M22819•2	PROPER TYPE		F3B09230
01576	0	40000 0	02346		ADD	CTRAST			F3B09240
01577	1	77777 2	01570	M22815	TXI	M22810+1,2,-1	SORT ACCORDING TO TYPE		F3809250
01600	0	02000 0	01606	M22819	TRA	M22825	TYPE I INSERTS		F3B09260
01601	0	02000 0	01633	. *	TRA	M22850	TYPE II INSERTS		F3B09270
01602	0	02000 0	01654		TRA	M22875	TYPE III INSERTS		F3B09280
01603	0	02000 0	01677		TRA	M22900	TYPE IV INSERTS		F3B09290
01604	0	02000 0	01732		TRA	M22925	TYPE V INSERTS		F3B09300
01605	O	02000 0	01752		TRA	M22950	TYPE VI INSERTS		F3B09310
01606	-0	53400 2	02346	M22825	LXD	CTRAST , 2	TYPE I INSERTS		F3B09320
01607	0	50000 2	02372		CLA	TRASTO+2,2	3RD WRD OF TRASTO ENTRY		F3B09330
01610	ŏ	76500 0	00022		LRS	18	ADDRESS PORTION IN MQ		F3B09340
01611	ŏ	60100 0	02365		STO	M2CW+3	DECREMENT, T1, IN 4TH WORD		F3B09350
01612	-0	50000 0	02310		CAL	M2CON+12	+14000000000		F3B09360
01613	0	60200 0	02364		SLW	M2CW+2	SYMBOLIC ADDRESS		F3B09370
01614	õ	76300 0	00022		LLS	18	PUT BACK T2 IN ACC		F3B09380
01615	-0	60200 0	02364		ORS	M2CW+2	PUT IN ADDRESS PART OF 3RD WD		F3B09390
01616	ŏ	07400 4	02177		TSX	CIT200 • 4	COMPILE INSTRUCTIONS		F3B09400
01617	ŏ	00000	02362		HTR	M2CW	INT. FMLA NO. IF ANY		F3B09410
01620	ŏ	00000	02320		HTR	M2ABC+3	SXD		F3B09420
01620	ŏ	00000 0	02364		HTR	M2CW+2	+140000000000 T2		F3B09430
01622	õ	00000 0	02365		HTR	M2CW+3	71		F3B09440
01622	ŏ	60100 0	02365		STO	M2CW+3	PUT T2 IN 4TH WRD.		F3B09450
01622	0	07400 4	02303		TSX	CIT200+4	COMPILE		F3B09460
01624	ŏ	00000 0	02171		HTR	M2CON	ZERO		F3B09470
01625	Õ	00000.0	02217		HTR	M2ABC+4	LXD		F3809480
01620	ŏ	00000 0	02364		HTR	M2CW+2	14(8) •T2		F3B09490
01620	×	00000	02365		HTR	M2CW+3	12		F3B09500
01630		53400 4	02303	M22848	IXD	CBOX • 4	RESTORE LINKAGE		F3B09510
01031	-0	02000 4	00001	MEZOTO	TDA	1.4	BACK TO MAIN ROUTINE		F3B09520
01032	0	52400 4	00001	M22050	IND	CTPAST 42	TYPE II INSERTS		F3B09530
01003	-0	50000 2	02271	M22030	CAL	TRASTO+1.2	2ND WORD OF TRASTO ENTRY		F3B09540
01634	-0	20000 2	02311		CML	MOCHAO	SAVE IN 3RD WORD FOR COMPILER		F3B09550
01635	0	50200 0	02272		CAI	TRASTO+242	3RD WD OF ENTRY		F3B09560
01636	-0	20000 2	02312		VVIV	M2CON+10	SAVE ADDRESS		F3B09570
01637	-0	32000 0	02306		CLH	Machina	STORE IN ATH WO		F3809580
01640	0	60200 0	02365		SLW	M2CWT3	COMPTIED		F3809590
01641	0	07400 4	02177		UTD	C1120014	INTERNAL EMIA: NO. A TE ANV		F3B09600
01642	. 0	00000 0	02362		HIK	MANAGE	DAD		F3809610
01643	0	00000 0	02322		HIK	MACON	7 F D O		F3B09620
01644	0	00000 0	02274	-	HIK	MACHA	7EDO. T1	•	F3809630
01645	0	00000 0	02365		HIK	CITOOD-	COMPTIED		F3809640
01646	0	0.7400 4	02177		15X	C1120094	ZEDO.		F3B09650
01647	0	00000 0	02274		HTR	MZCON	2ERU		F3800660
01650	0	00000 0	02323		HTR	MZABC+6	510	•	F3809600
01651	0	00000 0	02364	·	HTR	M2CW+2	GET NEXT TYPE ENTRY ZERO IN ACC. LENGTH OF TYPE 1 ENTRY ETC PLACE THIS RESULT INIR 4 PUT BACK IN ACC., CLEARING ADDRESS CURRENT TRASTO ENTRY POINT PROPER TYPE SORT ACCORDING TO TYPE		E3800490
01652	0	00000 0	02274		HTR	MZCON	ZERU		E300000
01653	0	02000 0	01631		TRA	M22848	TO RESTORE LINKAGE		, טעסעטפניו

01654 -0	53400	2 023	46 M22875	LXD	CTRAST • 2	TYPE III INSERTS	F3809700
01655 0	50000	2 023	72	CLA	TRASTO+2,2	3RD WRD OF TRASTO ENTRY	F3B09710
01656 0	76500	0 000	22	LRS	18	SHIFT N TO MG	F3809720
01657 0	40000	0 023	03	ADD	M2CON+7	1 TO ADDRESS FOR SIGN	F3B09730
01660 0	60100	0 023	65	STO	M2CW+3	4TH WORD	F3B09740
01661 0	76000	0 000	00	CLM		CLEAR ACC	F3809750
01662 0	76300	0 000	22	LLS	18	PUT N BACK IN ACC.	F3B09760
01663 0	76000	0 000	06	COM		COMPLIMENT	F3B09770
01664 0	40000	0 022	75	ADD	M2CON+1	ADD ONE 2 S COMPLIMENT	F3B09780
01665 -0	32000	0 023	06	ANA	M2CON+10	SAVE ADDRESS	F3B09790
01666 0	60100	0 023	63	STO	M2CW+1	2ND WORD OF COMPILER	F3B09800
01667 -0	50000	0 023	24	CAL	M2ABC+7	TXI	F3B09810
01670 -0	60200	0 023	63	ORS	M2CW+1	IN DECREMENT	F3B09820
01671 0	07400	4 021	77	TSX	CIT200 • 4	COMPILER	F3B09830
01672 0	00000	0 023	62	HTR	M2CW		F3B09840
01673 0	00000	0 023	63	HTR	M2CW+1	TXI, N(COMP)	F3B09850
01674 0	00000	0 023	11	HTR	M2CON+13	+17000000000	F3B09860
01675 0	00000	0 023	65	HTR	M2CW+3	1,	F3B09870
01676 0	02000	0 016	31	TRA	M22848	RESTORE LINKAGE	F3B09880
01677 -0	53400	2 023	46 M22900	LXD	CTRAST • 2	TYPE IV INSERT	F3B09890
01377 0	50000	2 023	72	CLA	TRASTO+2.2	3RD WRD OF TRASTO ENTRY	F3B09900
01700 0	76000	0 000	02	CHS		CHANGE SIGN TO PLUS	F3B09910
01701 0	76500	0 000	22	LRS	18	T1. TO ADDRESS. T2 TO M2	F3B09920
01702 0	76100	0 000	00 COR14	NOP			F3B09930
01705 0	60100	0 000	65 PATO	STO	M2CW+3		F3B09940
01704 0	50000	0 023	60 PATIO	CLA	CLOC	INCREMENT FOR LOC WD OF 1ST ENTRY	F3B09950
01705 0	40000	0 023	O1 PAT11	ADD	M2CON+5	ADD 10	F3B09960
01700 0	60100	0 023	60 PAT12	STO	CLOC	RESTORE WITH NEW INCREMENT	F3B09970
01710 0	60100	0 023	64 PAT13	STO	M2CW+2	ALS O PLACE IN 3RD WD OF COMPILER	F3B09980
01710 0	50000	0 023	45 PAT14	CLA	TRSWC	WORD COUNT	F3B09990
01711 0	60200	0 023	64 PAT15	ORS	M2CW+2	SAVE IN DECREMENT OF 3RD WD	F3B10000
01712 -0	07400	4 023	77 RET3	TSX	CIT200+4	COMPILER	F3B10010
01715 0	01400	0 023	62	HTR	M2CW		F3B10020
01714 0	00000	0 023	20	HTR	M2ABC+3	SXD	F3B10030
01715 0	00000	0 023	64 COR16	HTR	M2CW+2	WORD COUNT, INCREMENTED LOC WD	F3B10040
01710 0	00000	0 023	65	HTR	M2CW+3	T1	F3B10050
01717 0	50000	2 023	72	CLA	TRASTO+2.2	3RD WORD OF TRASTO ENTRY	F3B10060
01720 0	30000	0 023	06	ΔΝΔ	M2CON+10	SAVE ADDRESS	F3B10070
01721 -0	40000	0 023	03	ADD	M2CON+7	1 TO ADDRESS FOR C	F3B10080
01722 0	40000	0 023	65	STO	M2CW+3	4TH WORD	F3B10090
01725 0	07400	4 023	77	TSX	CIT200+4	COMPILER	F3B10100
01724 0	00000	0 023	64 COR17	HTR	M2CW+2	LOC WORD	F3B10110
01725 0	00000	0 023	25	HTR	M2ABC+8	TIX	F3B10120
01726 0	00000	0 023	11	HIR	M2CON+13	17(8)	F3B10130
01727 0	00000	0 023	66	HTR	M2CW+3	172	F3B10140
01730 0	00000	0 025	21	TRA	M22848	BACK TO RESTORE LINKAGE	F3B10150
017320	52400	2 010	46 M22025	LXD	CTRAST•2	TYPE V INSERTS	F3B10160
01732 -0	50000	2 023	70 966767 70	CLA	TRASTO+2 • 2	3RD WORD	F3B10170
01/33 0	74000	0 000	02	CHS	1	CHANGE SIGN TO PLUS	F3B10180
01/34 0	76500	0 000	22	LRS	18	SHIFT T TO ADDRESS, N TO MQ	F3B10190
01735 0	40000	0 000	03	ADD	M2CON+7	1 FOR SIGN	F3B10200
01/36 0	40000	0 023	65	STO	M2CW+3	TYPE III INSERTS 3RD WRD OF TRASTO ENTRY SHIFT N TO MG 1 TO ADDRESS FOR SIGN 4TH WORD CLEAR ACC PUT N BACK IN ACC. COMPLIMENT ADD ONE, 2 S COMPLIMENT SAVE ADDRESS 2ND WORD OF COMPILER TXI IN DECREMENT COMPILER TXI, N(COMP) +170000000000 1, RESTORE LINKAGE	F3B10210
01/3/ 0	P0100	0 023	24	CAI	M2ABC+7	TXI	F3B10220
01740 -0	77100	0 000	22	ARS	18	SHIFT TO ADDRESS PORTION	F3B10230
01/41 0	11100	0 000	~ ~	A			

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F3B10240
                                                 CONTENTS OF MQ
                              LLS 18
       0 76300 0 00022
                                                                                               F3B10250
                              SLW M2CW+1
                                                  1 TXI N
01743
       0 60200 0 02363
                                                                                               F3B10260
                              TSX CIT200,4
                                                  COMPILER
       0 07400 4 02177
01744
                                                                                               F3B10270
                              HTR M2CW
01745
      0 00000 0 02362
                                                                                               F3B10280
                              HTR M2CW+1
                                                  TXI • N
01746 0 00000 0 02363
                                                                                               F3B10290
                                                 17(8)
                              HTR M2CON+13
01747 0 00000 0 02311
                                                                                               F3B10300
                              HTR M2CW+3
                                                 1 • T
01750 0 00000 0 02365
                                                                                               F3B10310
                                                  RESTORE LINKAGE
                              TRA M22848
01751 0 02000 0 01631
                                                                                               F3B10320
                                                         TYPE VI INSERTS
01752 -0 53400 2 02346 M22950 LXD CTRAST+2
                                                                                               F3B10330
                                                  3RD WORD OF TRASTO ENTRY
                              CLA TRASTO+2,2
01753 0 50000 2 02372
                                                                                               F3B10340
01754 0 76000 0 00002
                              CHS
                                                                                               F3B10350
                              ORA M2CON+14
                                                  +120000000000
01755 -0 50100 0 02312
                                                                                               F3B10360
                                                  3RD WD OF COMPILER
                              STO M2CW+2
01756 0 60100 0 02364
                                                                                               F3B10370
                              CLA M2CON+3
                                                  +000000000004
01757 0 50000 0 02277
                                                                                               F3B10380
                              ORA COR28
                                                  +000004
01760 -0 50100 0 02334 COR18
                                                                                               F3B10390
                              STO M2CW+4
                                                  5TH WORD
01761 0 60100 0 02366
                                                  COMPILER
                              TSX CIT200,4
01762 0 07400 4 02177
                                                                                               F3B10410
01763 0 00000 0 02362
                              HTR M2CW
                                                                                               F3B10420
                                                  SXD
                              HTR M2ABC+3
       0 00000 0 02320
01764
                                                                                               F3B10430
                                                  6000000000
01765 0 00000 0 02313
                              HTR M2CON+15
                                                                                               F3B10440
                              HTR M2CW+4
                                                  494
01766 0 00000 0 02366
                                                  COMPILER
                              TSX CIT200:4
01767 0 07400 4 02177
                                                                                               F3B10460
                              HTR M2CON
                                                  ZERO
01770 0 00000 0 02274
                                                                                               F3B10470
                                                  TSX
                              HTR M2ABC+9
01771 0 00000 0 02326
                                                                                               F3B10480
                              HTR M2CW+2
                                                  12(8) +T
01772 0 00000 0 02364
                                                                                               F3B10490
                                                  ZERO +4
                              HTR M2CON+3
      0 00000 0 02277
01773
                                                                                               F3B10500
                              CLS TRASTO+2+2
                                                  3RD WORD
01774 0 50200 2 02372
                                                                                               F3B10510
                                                  4TH WD OF COMPILER
                              STO M2CW+3
01775 0 60100 0 02365
                                                                                               F3B10520
                                                  14 IN DECREMENT
                              ORA M2CON+12
01776 -0 50100 0 02310
                                                                                               F3B10530
                                                  3RD WD, SAVE T
                              STO M2CW+2
01777 0 60100 0 02364
                                                                                               F3B10540
                              TSX CIT200:4
                                                  COMPILER
02000 0 07400 4 02177
                                                                                               F3B10550
                                                  ZERO
                              HTR M2CON
02001 0 00000 0 02274
                                                                                               F3B10560
                              HTR M2ABC+4
                                                  LXP
       0 00000 0 02321
02002
                                                                                               F3B10570
                                                  14(8) T
                              HTR M2CW+2
       0 00000 0 02364
02003
                                                                                               F3B10580
                                                  ZERO • T
                              HTR M2CW+3
02004 0 00000 0 02365
                                                                                               F3B10590
                                                  COMPILER
                              TSX CIT200,4
02005 0 07400 4 02177
                                                                                               F3B10600
                              HTR M2CON
                                                  ZERO
02006 0 00000 0 02274
                                                                                               F3B10610
                              HTR M2ABC+10
                                                  LXD
02007 0 00000 0 02327
                                                                                               F3B10620
                                                  6(8)
                              HTR M2CON+15
02010 0 00000 0 02313
                                                                                               F3B10630
                              HTR M2CW+4
02011 0 00000 0 02366
                                                                                               F3B10640
                                                  BACK TO RESTORE LINKAGE
                              TRA M22848
02012 0 02000 0 01631
                                                                                               F3B10650
                                  INITIAL TRANSFER COMPILERS FOR TIFGO ENTRIES
                                                                                               F3B10660
                                  WHEN A TRASTO ENTRY IS ASSOCIATED WITH
                                                                                               F3B10670
                                  THE TRANSFER ADDRESS
                                                                                               F3B10680
                                  TRANSFER WITH LOCATION O
                                                 SAVE CONTENTS OF IR4 FOR LINKAGE
                                                                                               F3B10690
02013 -0 63400 4 02270 M23000 SXD ADD6+3.4
                                                                                               F3B19700
                                                  CURRENT TIF60 FMLA. NO. IN DECR.
                              CLA TIFFN
02014 0 50000 0 02345
                                                                                               F3B10710
                                                  3RD WORD
                              STO M2CW+2
02015 0 60100 0 02364
                                                 8 TIMES NO. OF TIMES ADDRESS IS IN TRASTO
                                                                                               F3B10720
                              CLA ADDCO
02016 0 50000 0 02333
                                                                                               F3B10730
                                                  PLACE IN ADDRESS
                              ORS M2CW+2
02017 -0 60200 0 02364
                                                                                               F3B10740
                                                  COMPILER
                              TSX CIT200,4
02020 0 07400 4 02177
                                                                                               F3B10750
                                                 ZERO
02021 0 00000 0 02274
                              HTR M2CON
                                                                                               F3B10760
                              HTR M2ABC
02022 0 00000 0 02315
                                                                                               F3B10770
                                                  TIFEN. ADDCO
                              HTR M2CW+2
02023 0 00000 0 02364
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								7500	F3B10780
02024	0	00000	0	02274		HIK	M2CON	ZERO	F3810700
02025	0	02000	0	02271	COR20	IKA	PAILI	BACK TO MAIN POUTINE	F3810800
02026	0	02000	4	00006		IKA	THEO INCIDUCTION	N COD IE OVEDELOM	F3R10810
	_					c × 5	INFO INSTRUCTION	CAVE LINKAGE	F3B10B20
02027	-0	63400	4	02270	M23025	SXD	AUU0+394	TIEGO ENIA NO.	F3B10B30
02030	0	50000	0	02345		CLA	IIFFN	11LOO LWEW MOS	F3810840
02031	0	60100	0	02364		\$10	M2CW+2	SOUNT	F3B10850
02032	0	50000	0	02333		CLA	ADDCO	COUNT	E3810850
02033	-0	60200	0	02364		ORS	M2CW+2	ADUKESS	F2B10000
02034	0	07400	4	02177		TSX	C1T200+4	COMPILER	E3010010
02035	0	00000	0	02345		HTR	TIFFN	TIFGO FMLA NO.	E3010000
02036	0	00000	0	02274		HTR	M2CON	ZERU	E3010070
02037	0	00000	0	02364		HTR	M2CW+2	TIFFN, ADDCO	F3D10900
02040	0	00000	0	02274		HTR	M2CON		E3010010
02041	0	02000	0	02271	COR22	TRA	PAT17		F3010920
02042	0	02000	4	00006		TRA	6,4	D WITH LOCATION THE AND L C	F3B10930
							TRANSFER ON ZERO	WITH LOCATION FMLA NO + 6	F3010050
02043	-0	63400	4	02270	M23035	SXD	ADD6+3•4		F3510950
02044	0	50000	0	02345		CLA	TIFFN		F3810960
02045	0	60100	0	02362		STO	M2CW	INT.FMLA NO	F3B10970
02046	0	60100	0	02364		STO	M2CW+2	3RD WD	F3B10980
02047	0	50000	0	02333		CLA	ADDCO	COUNT	F3B10990
02050	-0	60200	0	02362		ORS	M2CW	ADDRESS OF FIRST WD.	F3B11000
02051	O	40000	0	02301		ADD	M2CON+5	ADD 10	F3B11010
02052	-0	60200	0	02364		ORS	M2CW+2	ADD 10 TO COUNT	F3B11020
02053	o	07400	4	02177		TSX	CIT200+4	COMPILER	F3B11030
02054	ŏ	00000	0	02362		HTR	M2CW	INT FMLANO, ADDCO	F3B11040
02055	õ	00000	Õ	02316		HTR	M2ABC+1	TZE	F3B11050
02056	ŏ	00000	٥	02364		HTR	M2CW+2	INT. FMLA NO., ADDCO+10	F3B11060
02057	õ	00000	Õ	02274		HTR	M2CON	ZERO	F3B11070
02050	ŏ	02000	ō	02271	COR24	TRA	PAT17		F3B11 0 80
02061	ŏ	02000	4	00006		TRA	694		F3B11090
02001	. •	02000	•	••••			TRANSFER ON PLUS	S WITH LOCATION O	F3B11100
02062	-0	63400	4	02270	M23040	SXD	ADD6+3,4	SAVE LINKAGE	F3B11110
02002	0	50000	ō	02345		CLA	TIFFN	TIFGO INT. FMLA NO.	F3B11120
02003	ñ	60100	ñ	02364		STO	M2CW+2	3RD WD	F3B11130
02004	ŏ	50000	ñ	02333		CLA	ADDCO	·	F3B11140
02065	ň	40000	ñ	02301		ADD	M2CON+5	10 TO ADDCO	F3B11150
02067	-0	60200	Ô	02364		ORS	M2CW+2	IN ADDRESS OF 3RD WD	F3B11160
02007	_0	07400	4	02177		TSX	CIT200+4	COMPILER	F3B11170
02070	~~~	00000	7	02274		HTR	M2CON	ZERO	F3811180
02011		00000	0	02217		HTR	M2ABC+2	TPL	F3B11190
02072	0	00000	~	02364		HTR	M2CW+2	TIFFN. ADDCO+10	F3B11200
02013	~	00000	~	02307		HTR	MZCON	ZERO	F3B11210
02074	ŏ	00000	۸	02277	COR26	TRA	PAT17		F3B11220
02075	ŏ	02000	,	00006	COREO	TPA	6.4	·	F3B11230
02076	U	02000	4	00000		1117	INITIAL TRANSFER	R COMPILERS FOR TIFGO	F3B11240
							ENTRIES WHEN THE	ERE IS NO TRASTO ENTRY	F3B11250
		•					FOR THE TRANSFER	R ADDRESS	F3B11260
							TRANSFER WITH LO	DCATION 0	F3B11270
		(0400		02223	M22050	CYD	CROX.4	SAVE LINKAGE	F3B11280
02017	-0	53400	4	02221	ME3030	TAU	FTRAL . 2	IN IRZ CURRENT TRALEV ENTRY PT.	F3B11290
02100	_0	53400	2	02341		CLA	TRALEVA2	CURRENT TRALEY ENTRY	F3B11300
02101	0	50000	2	03211		ANA	TRALEV,2 M2CON+9	SAVE DECREMENT, OF TRAVEV ENTRY	F3B11310
02102	-0	32000	U	02305		MINH	FILCOM. 7	BACK TO MAIN ROUTINE N FOR IF OVERFLOW SAVE LINKAGE TIFGO FMLA NO. 3RD WD. COUNT ADDRESS COMPILER TIFFO FMLA NO. ZERO TIFFO, ADDCO D WITH LOCATION FMLA NO + 8 INT.FMLA NO 3RD WD COUNT ADDRESS OF FIRST WD. ADD 10 ADD 10 TO COUNT COMPILER INT FMLANO, ADDCO TZE INT. FMLA NO., ADDCO+10 ZERO S WITH LOCATION 0 SAVE LINKAGE TIFGO INT. FMLA NO. 3RD WD 10 TO ADDCO IN ADDRESS OF 3RD WD COMPILER ZERO TPL TIFFN, ADDCO+10 ZERO R COMPILERS FOR TIFGO ERE IS NO TRASTO ENTRY R ADDRESS DCATION 0 SAVE LINKAGE IN IRZ CURRENT TRALEV ENTRY PT. CURRENT TRALEV ENTRY SAVE DECREMENT, OF TRAVEV ENTRY	

										E3011320
	02103	0	60100	0	02364		STO	M2CW+2	SRD WORD	F3B11330
	02104	0	07400	4	02177		TSX	CIT200,4	COMPILER	F3B11340
	02105	0	00000	0	02274		HTR	M2CON	ZERO	F3B11350
	02106	0	00000	0	02315		HTR	M2ABC	TRA	E3811360
	02107	0	00000	0	02364		HTR	M2CW+2	AI	F3B11370
	02110	0	00000	0	02274		HTR	M2CON	ZERO	E3011310
•	02111	-0	53400	4	02331		LXD	CBOX • 4	RESTORE LINKAGE	F3B11300
	02112	0	02000	4	00002		TRA	2,4	W =00 += 0UEDELOU	F3B11400
								INFO INSTRUCTION	N FOR IF OVERFLOW	F3B11410
	02113	-0	63400	4	02331	M23060	SXD	CBOX,4	SAVE LINKAGE	E3011410
	02114	-0	53400	2	02347		LXD	ETRAL • 2	CURRENT TRALEV ENTRY DI.	F3D11420
	02115	0	50000	2	03211		CLA	TRALEV • 2	TRALEV ENTRY	F3D11430
	02116	-0	32000	0	02305		ANA	M2CON+9	SAVE DECREMENT	F3011440
	02117	0	60100	0	02364		STO	M2CW+2	3RD WD	F3D1143U
	02120	0	07400	4	02177		TSX	CIT200,4	COMPILER	F381146U
	02121	0	00000	0	02345		HTR	TIFFN	TIFGO INT. FMLA NO	F3811470
	02122	0	00000	0	02274		HTR	M2CON	ZERO	F3B1148U
_	02123	0	00000	0	02364		HTR	M2CW+2	A1.	F2011500
	02124	ō	00000	0	02274		HTR	M2CON	ZERO	F3B11500
	02125	-0	53400	4	02331		LXD	CBOX+4	RESTORE LINKAGE	F3B11510
	02126	ō	02000	4	00002		TRA	2,4		F3B11520
	02220	•	•		•••			TRANSFER ON ZER	O WITH LOCATION FMLA NO + 8	F3B11530
	A2127	-0	63400	4	02331	M23065	SXD	CBOX • 4	SAVE LINKAGE	F3B11540
	02130	-0	53400	2	02347		LXD	ETRAL + 2	CURRENT TRALEV ENTRY PT	F3B11550
	02121	ñ	50000	2	03211		CLA	TRALEV.2	SAVE DECREMENT OF TRALEV	F3B11560
	02132	-0	32000	ັດ	02305		ANA	M2CON+9	ENTRY	F3B11570
	02132	ő	60100	ñ	02364		STO	M2CW+2		F3B11580
	02133	ň	50000	ŏ	02345		CLA	TIFFN	TIFGO FMLA NO.	F3B11590
	02134	õ	60100	ň	02362		STO	M2CW		F3B11600
	02137	ñ	50000	ň	02301		CLA	M2CON+5	10 (8)	F3B11610
	02130	-0	60200	ň	02362		ORS	M2CW	ADD TO ADDRESS	F3B11620
	02151	-0	07400	ĭ	02177		TSX	CI T200 • 4		F3B11630
	02140	ň	00000	7	02362		HTR	M2CW	TIFFN+10(8)	F3B11640
	02141	V	00000	~	02302		HTR	M2ARC+1	TZE	F3B11650
	92142	0	00000	Š	02310		HTR	M2CW+2	ΔĪ	F3B11660
	02143	v	00000	Š	02374		LITE	M2CON	ZERO	F3B11670
	02144	Û	50000	Ú	02214		1 40	CROYA		F3B11680
	02145	-0	53400	4	02331		TDA	2.4		F3B11690
	02146	U	02000	4	00002		INA	TRANSFER ON PILL	S WITH LOCATION O	F3B11700
	· -	_			^^^	H22070	CVD	CROY-4	SAVE LINKAGE	F3B11710
	02147	-0	63400	4	02331	M23010	340	ETPAL 2	SATE ETHANSE	F3B11720
	02150	-0	53400	2	02341		CLA	TDALEVA2		F3B11730
	02151	0	50000	2	03211		CLA	HACONIA INALEVIZ	DECREMENT OF TRALEY ENTRY	F3B11740
	02152	-0	32000	ō	02305		ANA	MACHER	DECKEMENT OF TRACES CHIRT	F3B11750
	02153	0	60100	0	02364		310	M2CWT2		F3B11760
	02154	0	07400	4	021//		154	C1120094	7.EDO	F3B11770
	02155	0	00000	0	02274		HIK	MACON	TO	F3B11780
	02156	0	00000	0	02317		HIK	MAROLTA	A1	F3B11790
	02157	0	00000	0	02364		HIK	MZCW+Z	7500	F3B11800
	02160	0	00000	0	02274		HIR	M2CUN	LERU	F3B11810
	02161	-0	53400	4	02331		LXD	CBUX • 4		F3B11820
	02162	0	02000	4	00002		TRA	2,4	COUNTIED FOR TIEGO	F3811830
								FINAL TRANSFER	COMPILER FOR LIFGO	F3R11840
								ENTRIES WHEN A	SRD WORD COMPILER ZERO TRA AI ZERO RESTORE LINKAGE N FOR IF OVERFLOW SAVE LINKAGE CURRENT TRALEV ENTRY DT. TRALEV ENTRY SAVE DECREMENT 3RD WD COMPILER TIFGO INT. FMLA NO ZERO AI ZERO OWITH LOCATION FMLA NO + 8 SAVE LINKAGE CURRENT TRALEV ENTRY PT SAVE DECREMENT OF TRALEV ENTRY TIFGO FMLA NO. 10 (8) ADD TO ADDRESS TIFFN+10(8) TZE AI ZERO SWITH LOCATION O SAVE LINKAGE DECREMENT OF TRALEV ENTRY ZERO COMPILER FOR TIFGO TRASTO ENTRY IS ASSOCIATED ER ADDRESS	F3B11850
								WITH THE TRANSF	EK ADUKESS	. 2011070

02162 -0 63400 4	02331	M23075 SXD	CBOX+4	SAVE DECREMENT OF TRALEVENTRY +1700000000000 TRA AI ZERO 200 SAVE AC SAVE MQ SAVE IR 1 SAVE IR 2 2 S COMP® OF NO® OF WDS® IN BLOCK COMPARE TO 100® LAST ENTRY SELECT TAPE 2 TIFGO FILE REC® COUNT ADD 1 TO DECREMENT TIFGO FILE REC® COUNT ZERO IN IR 1 OUTPUT AREA SET COUNT FOR NEXT WORD SET UP COUNT OF BLOCK BACK TO CONTINUE WRITING COUNT OF 4 IN IR 1 1 IN ACC TO GET NEXT ENTRY ADDRESS OF NEXT ENTRY NEXT ENTRY OUTPUT AREA ADDRESS ONE RESTORE ADDRESS DECREASE BLOCK COUNT GET NEXT ENTRY SAVE COUNT RESTORE AC RESTORE MQ RESTORE IR 1 RESTORE IR 1 RESTORE IR 2 BACK TO MAIN ROUTINE SAVE LINKAGE CURRENT TRASTO ENTRY SORT OUT TYPES 1,2,3 TYPES 4,5,6® TEST 2ND WD TYPE 2 1ST WORD	F3B11860
02164 -0 53400 2	02347	LXD	ETRAL + 2		F3B11870
02165 0 50000 2	03211	CLA	TRALEV•2		F3B11880
02166 -0 32000 0	02305	ANA	M2CON+9	SAVE DECREMENT OF TRALEV	F3B11890
02167 0 60100 0	02364	STO	M2CW+2	ENTRY	F3B11900
02170 0 07400 4	02177	TSX	CIT200 • 4		F3B11910
02171 0 00000 0	02311	HTR	M2CON+13	+17000000000	F3B11920
02172 0 00000 0	02315	HTR	M2ABC	TRA	F3B11930
02173 0 00000 0	02364	HTR	M2CW+2	AI	F3B11940
02174 0 00000 0	02274	HTR	M2CON	ZERO	F3B11950
02175 -0 53400 4	02331	LXD	CBOX • 4		F3B11960
02176 0 02000 4	00001	TRA	1 • 4		F3B11970
			M2 COMPILER CIT	200	F3B11980
02177 0 60100 0	02351	CIT200 STO	E1C2	SAVE AC	F3B11990
02200 -0 60000 0	02352	STG	E2C2	SAVE MQ	F3B12000
02201 -0 63400 1	02353	SXD	E3C2 • 1	SAVE IR 1	F3B12010
02202 -0 63400 2	02354	SXD	E4C2 • 2	SAVE IR 2	F3B12020
02203 -0 53400 2	02355	LXD	BBOX+2	2 S COMP. OF NO. OF WDS. IN BLOCK	F3B12U3U
02204 3 77634 2	02217	TXH	CIT204,2,-100	COMPARE TO 100.	F3B12040
02205 -3 00000 2	02217	TXL	CIT204,2,0	LAST ENTRY	F3B12050
02206 0 76600 0	00222	WRS	146	SELECT TAPE 2	F3B12060
02207 0 50000 0	07322	CLA	TFRCO	TIFGO FILE REC. COUNT	F3B12070
02210 0 40000 0	02303	ADD	M2CON+7	ADD 1 TO DECREMENT	F3B12080
02211 0 60100 0	07322	STO	TFRC0	TIFGO FILE REC. COUNT	F3B12090
02212 0 53400 1	02274	LXA	M2CON+1	ZERO IN IR 1	F3B12100
02213 0 70000 1	06622	CIT201 CPY	CIB2•1	OUTPUT AREA	F3B12110
02214 1 77777 1	02215	TXI	CIT202•1•-1	SET COUNT FOR NEXT WORD	F3B1212U
02215 1 00001 2	02216	CIT202 TXI	CIT203,2,1	SET UP COUNT OF BLOCK	F3B1213U
02216 3 00001 2	02213	CIT203 TXH	CIT201,2,1	BACK TO CONTINUE WRITING	F3B12140
02217 0 53400 1	02277	CIT204 LXA	M2CON+3 + 1	COUNT OF 4 IN IR 1	F3B1215U
02220 0 50000 0	02275	CLA	M2CON+1	1 IN ACC	F3B12160
02221 0 62100 0	02222	STA	CIT205	TO GET NEXT ENTRY	F3D12170
02222 0 50000 4	00000	CIT205 CLA	0 9 4	ADDRESS OF NEXT ENTRY	F3B12100
02223 0 62100 0	02224	STA	CIT206	NEWS ENERGY	F3B12190
02224 0 50000 0	00000	CIT206 CLA		NEXT ENIKY	F3B12210
02225 0 60100 2	06622	STO	CIB2,2	OUIPUI AKEA	F3B12220
02226 0 50000 0	02222	CLA	CIT205	ADDRESS	F3R12230
02227 0 40000 0	02275	ADD	M2CON+1	ONE	F3R12240
02230 0 62100 0	02222	STA	CIT205	RESTORE ADDRESS	F3812250
02231 1 77777 2	02232	TXI	CIT207,2,-1	DECREASE BLOCK COUNT	F3B12260
02232 2 00001	02222	CIT207 TIX	C1T205+1+1	GET NEXT ENIRT	F3R12270
02233 -0 63400 2	02355	SXD	BBOX • 2	DESTORE AC	F3R12280
02234 0 50000 0	02351	CLA	E1C2	RESTURE AC	F3R!2290
02235 0 56000	02352	LDC	E2C2	RESTURE MU	F3812300
02236 -0 53400 1	02353	LXD	E3C2,1	RESTORE IR I	F3R12310
02237 -0 53400 2	02354	LXD	E4C2+2	RESTURE IR Z	F3R12320
02240 0 02000 4	00005	TRA	5 9 4	DACK TO MAIN KOUTING	F3B12330
02241 -0 63400 4	02260	ADD1 SXD	ADD4 94	SAVE LINKAGE	F3B12340
02242 -0 53400 2	02346	ADD2 LXD	CTRAST + 2	ADD NO OF TOACTO ENTRY	F3812350
02243 0 50000	02372	CLA	TRASTU+2+2	CODE OUR TYPES 1-2-2	F3R12360
02244 0 12000 0	02254	TPL	ADD3	TUDES A.E.A. TEST SAD MD	F3R12370
02245 0 50000 2	02371	CLA	TRASTU+1+2	117E3 493904 1E31 ZNU WU	F3R12380
02246 -0 12000 (02254	TMI	ADD3	ITTE 6	F3B12390
02247 0 50000 2	2 02370	CLA	TRASTU#2	TO! MOKO	. 55-2570
		-			

					•	•	
	02250	-0 12000 0 02254		TMI	ADD3	TYPE 3	F3B12400
	02251	0 50000 0 02333			ADDCO	COUNT TIMES 8	F3B12410
	02252	0 40000 0 02301			M2CON+5	ADD ONE	F3B12420
	02253				ADDCO	RESTORE NEW COUNT	F3B12430
	02254				ADD3+1+2+-4	SKIP TO NEXT ENTRY	F3B12440
	02255	0 07400 4 01456			M22700 • 4	TRASTO FMLA NO SEARCH	F3B12450
	02256	0 02000 0 02263		TRA	ADD5		F3B12460
	02257	0 07400 4 01477			M22750 • 4	TRASTO LEVEL NO SEA RCH	F3B12470
D	02260	-3 00000 0 02265	ADD4	TXL	ADD6 • 0		F3B12480
	02261	-0 53400 2 02346			CTRAST , 2	END ·	F3B12490
	02262	1 77774 2 02255		TXI	ADD3+1,2:-4	BACK FOR NEXT ENTRY	F3B12500
	02263	-0 53400 4 02260	ADD5	LXD	ADD4 • 4		F3B12510
	02264	0 02000 4 00001		TRA	1,4	BACK TO MAIN ROUTINE, VIA PAT 18	F3B12520
	02265	0 50000 0 02333	ADD6	CLA	ADDCO		F3B12530
	02266	0 40200 0 02301		SUB	M2CON+5		F3B12540
	02267	0 60100 0 02333		STO	ADDCO	•	F3B12550
D	02270	-3 00000 0 02242		TXL	ADD2 • 0		F3B12560
	02271	0 07400 4 02241	PAT17	TSX	ADD1+4		F3B12570
	02272	-0 53400 4 02270	PAT18	LXD	ADD6+3 • 4		F3B12580
	02273	0 02000 4 00006	PAT19	TRA	6 • 4		F3B12590
	02274	+00000000000	M2CON	DEC	0,1,2,4,6,8,16,	lB17,3B17	F3B12600
	02275	+000000000001					
	02276	+000000000002					
	02277	+000000000004					
	02300	+00000000006					
	02301	+000000000010					•
	02302	+000000000020					
		+000001000000					
		+000003000000					
		+077777000000		OCT	77777000000,777	77,50000000000,14000000000	F3B12610
		+000000077777					
		+050000000000					
		+14000000000	_	_		· · · · · · · · · · · · · · · · · · ·	
•		+170000000000	COR27	OCT	1700000000000120	000000000+60000000000+5000000	F3B1 26 20
		+120000000000		-			
		+06000000000				•	
		+000005000000		444			5 0010400
		635121000000	MZABC	BCD	6TRA0001ZE0001Pt	LOOOSXDOOOLXPOOOPXDOOO	F3B12630
	02316						
	02317		*				
	02320					•	
	02321		1.				•
	02322			0.00	ECTOCOCTYTOCOTT	AND TEXANDLY PARA	E2012666
	02323			BCD	5ST0000TX1000T1)	(00012X000FX0000	F3B12640
	02324						
	02325						
	02326						
	02327		WATETO	055	_		E2012/50
	02330	+000000000005	M2ECTR				F3B12650
		02274			M2CON A	· ·	F3B12660
		02276	L(2)		M2CON+2		F3B12670 F3B12680
		02277	L(4)		M2CON+3		F3B12690
•	02331	+000000000003	L(3)	DEC	=	IN DECR FIELD FOR ALL CLSD SUBROUTINE LIN	
	,	02331	CBOX	D I I	LIST IKC STUKED	IN DECK FIELD FOR ALL CLOD SUBROUTINE LIN	NAGET 3DIZ 100

02332	+0	000000	004		0456		456	F3B12710
	_			02332			0456 LOWER INDEX FOR TRAD IN DECR FIELD	F3B12720
02333	U	00000	0		TRSORG		TRASTO	F3B12730
							TREORG	F3B12740
				02333	ADDCO	2114	TRSORG 8 TIMES THE NUM OF TIMES THE CURRENT ADDRESS OF THE	F3B12750
02334	- '0	000040	00	000	COR28	OCT	CURRENT TIFGO ENTRY APPEARS IN TRASTO, IN ADDR FIELD	F3B12770
		000000			MASK		-20000000000	F3B12780
	-	000000	000	460	0460	OCT	460	F3B12790
02337			Õ	00000	1B0X	•••		F3B12800
02340			Ŏ	00000	2BOX			F3B12810
02341			Ŏ	00000	3B0X			F3B12820
02342	0	00000	0	00000	480X			F3B12830
02343	0	00000	0	00000	5BOX			F3B12840
02344	0	00000	0	00000	680X			F3B12850
				02337	ONEL	SYN	1BOX TWOS COMPS	F3B12860
				02340	TWOL	SYN	ONEL+1 OF THE LENGTHS	F3B12870
			,	02341	THREEL	SYN	ONEL+2 OF VARIOUS TYPES	F3B12880
				02342	FOURL	SYN	ONEL+3 OF ENTRY BLOCKS	F3B12890
				02343	FIVEL	SYN	ONEL+4 IN TRASTO	F3B12900
	_		_	02344	SIXL	SYN	ONEL+5 IN DECREMENT FIELD	F3B12910
02345	0	00000	0	00000	TREN	CVM	1BOX TWOS COMPS ONEL+1 OF THE LENGTHS ONEL+2 OF VARIOUS TYPES ONEL+3 OF ENTRY BLOCKS ONEL+4 IN TRASTO ONEL+5 IN DECREMENT FIELD WORD COUNT TRSWC CURRENT TIFGO FMLA NUM IN DEC FIELD	F3B12920
02244	^	00000	^	02345	HECHE	STIN	IRSWC CORRENT TIFGO FMLA NOM IN DEC FIELD	F3812930
02346	v	00000	U	00000	CTDAST	CVN	WCCHS CURRENT TRASTO ENTRY POINT IN DEC FIELD (TWOS COMP)	F3B12940
02347	0	00000	^	00000		3111	WCCHS CORRENT TRASTO ENTRY POINT IN DEC FIELD (1WOS COMP)	F3B12950 F3B12960
02341	٠	00000	U		ETRAL	SYN	CHS1 CURRENT TRALEV ENTRY POINT IN DEC FIELD (TWOS COMP)	F3B12970
02350	O	00000	0	00000		٠,,,	CHOI CORREST TRACES ENTRY TOTAL IN DEC TIED THOS COMPT	F3B12980
02330		00000	ĭ		LEVNO	SYN	CHS2 LEVEL NUM OF CURRENT ADDR OF CURR TIFGO ENTRY IN ADDRESS	
02351	0	00000	0	00000		• ,	CELL FOR SAVING AC	F3B13000
02352	0	00000	0	00000	E2C2		CELL FOR SAVING MQ	F3B13010
02353	0	00000	0	00000	E3C2		CELL FOR SAVING IRA IN DEC FIELD	F3B13020
02354				00000	E4C2		CELL FOR SAVING IRA IN DEC FIELD CELL FOR SAVING IRB IN DEC FIELD TWOS COMP OF NO OF WDS ALREADY ENTERED IN BLOCK TRASTO ENTRY POINT FOR INITIAL TIFGO FMLA NO MATCH IN DEC	F3B13030
02355				00000	BBOX		TWOS COMP OF NO OF WDS ALREADY ENTERED IN BLOCK	F3B13040
02356			-		ETRAST		TRASTO ENTRY POINT FOR INITIAL TIFGO FMLA NO MATCH IN DEC	F3B13050
02357	_		-		NETRAL		TRALEV ENTRY POINT FOR LAST ADD IN DEC FIELD(TWOS COMP)	F3B13060
02360	0	00000	0	00000	CFOC		INCREMENT FOR LOC WD OF FIRST INST IN CUR BLOCK	F3B13070
	_		_		C 4 1 / E		TEMP CTORACE FOR FIRST TRALEY FREDY FOR IT AS	F3B13080
02361	U	00000		00000		D.C.C	F FOUR HORD INSTRUCTION STORAGE	F3B13090
0227	7	00000		02362	CTRSWC	855	5 FOUR WORD INSTRUCTION STORAGE	F3813100
02367	U	00000			TRASTO	BSS	400	E3013110
				02370			TRASTO	F3B13130
				03210			400	F3B13140
				04030	TYPE3		400	F3B13150
				04650	TYPE4		400	F3B13160
				05470	TYPE5	BSS	400	F3B13170
				06310	TYPE6			F3B13180
					TRALEV	SYN	TYPE2+1	F3B13190
				05472	TIFGO	SYN	TYPE2+1202	F3B13200
				06622	CIB2	SYN	TYPE2+1802	F3B13210
				06767	TRAD			
				07322			* * * *	F3B13230
				07322	TFRCO	BSS	1	F3B13240

 07323 EASCO
 BSS 1 CURRENT ASCO ENTRY POINT IN DECR FIELD (TWOS COMP)
 F3B13250

 07324 ASNO
 BSS 1 ONE LESS THAN CUR ASSIGN NUM IN DEC FIELD
 F3B13260

 07325 ASCO
 BSS 300
 F3B13270

 00030 END 24
 F3B13280

ADD ONE TO DECREMENT

ADD L(1D)

00102 0 40000 0 01151

								•	
	00103	0	60100 0	07322		STO	3794	NEW TIFGO RECORD COUNT	F3B00530
	00104		50000 1		C6	CLA	FFLBUF •A	OBTAIN ALPHA FOR NEXT CIT IN IST FILE BUFFER	F3800540
	00105		62200 0			STD	FFLCFN		F3B00550
	00106	Ō	50000 2	02216		CLA	TFGBUF •B	OBTAIN FOR NEXT CIT AND SAVE IN	F3B00560
		-	32000 0			ANA	MASK	TIFGO BUFFER	F3B00570
	00110		62200 0				TFGCFN		F3800580
	00111		34000 0				FFLCFN	COMPARE FIRST FILE TO TIFGO FILE	F3B00590
	00112		02000 0			TRA	E1	OBTAIN FOR NEXT CIT AND SAVE IN TIFGO BUFFER COMPARE FIRST FILE TO TIFGO FILE ALPHA LESS THAN BETA ALPHA EQUALS BETA ALPHA GREATER THAN BETA COMPILE THIS TIFGO FILE INSTRUCTION	F3B00600
	00112		02000 0			TDA	Ji	ALPHA EQUALS BETA	F3B00610
	00113	•	02000 0	00331		••••		ALPHA GREATER THAN BETA	F3B0G620
	00114	٥	53400 4	01145	C5	LXA	L(4) •C	COMPILE THIS TIFGO FILE INSTRUCTION	F3B00630
	00115		50000 2		C2	CLA	TEGBUF •B	SET UP FOR WORDS	F3B00640
	00116		60100 4			STO	TFGCOM+4 • C	SET UP FOR WORDS	F3B00650
	00117		77777 2			TXI	C1+B+-1	ALPHA GREATER THAN BETA COMPILE THIS TIFGO FILE INSTRUCTION SET UP FOR WORDS	F3B00660
	00120	_	00001 4		C1	TIX	C2•C•1		F3B00670
		_	07400 4			TSX	CITOO+C	COMPILER	F3B00680
	00121		00000 0			HTR	TEGCOM		F3B00690
	00122		00000 0			HTR	TEGCOM+1		F3B00700
	00124	_	00000 0			HTR	TFGCOM+2		F3B00710
•	00124		00000 0			HTR	TEGCOM+3		F3B00720
			75400 2			PYD	0 a B	COMPARE WORD COUNT	F3B00730
			34000 0			CAS	TEGWC	WITH BUFFER SIZE	F3B00740
	00127		02000 0			TRA	C7	WORD COUNT LESS THAN BUFFER SSIZE	F3B00 7 50
	00130	_	02000 0			TRA	C3	WC EQUALS BS	F3B00760
		_				TSX	4.4	WORD COUNT INCORRECT	F3B00770
			07400 4 07400 4		C3	TSX	READTE • C	READ TIFGO FILE INTO BUFFER	F3B00780
	00133					MSF	98	IS TIFGO FILE USED UP	F3B00790
			76000 0 02000 0			TRA	C7	COMPILER COMPARE WORD COUNT WITH BUFFER SIZE WORD COUNT LESS THAN BUFFER SSIZE WC EQUALS BS WORD COUNT INCORRECT READ TIFGO FILE INTO BUFFER IS TIFGO FILE USED UP NO TEST LOCATION WD OF NEXT ENTRY	F3B00800
	00135		02000 0			TRA	G1	YES GO TO END OF TIFGO FILE ROUTINE	F3B00810
	00136		50000 2		C 7	CLA	TEGRUE •B	WORD COUNT LESS THAN BUFFER SIZE IS LOCATION WORD SPECIAL	F3B00820
			32000 0			ANA	2RIT	WORD COUNT LESS THAN BUFFER SIZE IS LOCATION WORD SPECIAL YES BACK TO COMPILE NEXT ENTRY	F3B00830
,								VEC DACK TO COMPTIE MEYT ENTRY	F3B00840
			10000 0			CLA	TFGBUF •B MASK TFGCFN C6	NO	F3B00850
			50000 2			ANA	MASK	DOES NEXT INSTRUCTION IN TIFGO FILE	F3B00860
			32000 0			CAS	TEGCEN	BELONG TO CURRENT COMPILED BLOCK	F3B00870
			34000 0			TRA	C6	NO	F3B00880
	00145		02000 0			NOP	Co	NO YES YES LE POUTINE	F3B00890
	00146		76100 0			TRA	CE	YES	F3B00900
	00147	U	02000 0	00114		IKA	END OF TIFGO FI	I F ROUTINE	F3B00910
			74000 0	00141	61	MSE		IS FIRST FILE USED UP. TEST SWITCH	F3B00920
			76000 0		G1	TRA		NO	F3B00930
	00151		02000 0			TDA	OUT	VES GO TO TERMINAL ROUT INF	F3B00940
	00152		02000 0		63	CLA	CEL BUE . A	ENTRY IN FIRST FILE RUFFER	F3B00950
	00153		50000 1		G2	CLA	FFLOUF #A	ENTRY IN FIRST FILE BUFFER STORE INTERNAL FORMULA NO. FOR ENTRY	
	00154	_	62200 0			210	FFLCFN	STORE INTERNAL FORMULA NO. FOR ENTRY	F3B00970
	00155		53400 4		G5	CLA	EEL BHE . A	FIRST	F3B00980
	00156		50000 1		G4	CLA	FFLCFN L(4),C FFLBUF,A FFLCOM+4,C G3,A,-1	FILE	F3B00990
	00157		60100 4			310	C2.A.=1	INSTRUCTION	F3B01000
	00160		77777 1		<i>c</i> 2			140110c110tt	F3B01010
	00161		00001 4		G3		G4 + C + 1	COMPILER	F3B01020
	00162		07400 4					COURTERN .	F3B01030
	00163		00000 0				FFLCOM	STORE INTERNAL FORMULA NO. FOR ENTRY COMPILE FIRST FILE INSTRUCTION COMPILER	F3B01040
	00164		00000 0				FFLCOM+1		F3B01050
	00165		00000 0		,		FFLCOM+2		F3B01060
	00166	0	00000 0	01225		HTR	FFLCOM+3		. 2001000

00167	-0	75400	1	00000		PXD	O • A	COMPARE WORD COUNT WITH BUFFER SIZE TO TEST IF FIRST FILE IS NOW EMPPTY WORD COUNT LES THAN BUFFER SIZE WC EQUALS BS WORD COUNT INCORRECT TEST IF FIRST FILE IS USED UP NO YES, GO TO TSX COM TABLE SEARCH TERMINAL ROUTINE TEST IF NEXT FIRST FILE ENTRY BELONGS TOSAME BLOCK OF INSTRUCTIONS NO TEST IF NEXT FIRST FILE ALPHA IS GREATER THAN PREVIOUS ONE INTERNAL FORMULA NUMBER YES, BACK TO COMPILE NEXT INSTRUCTION	F3B01070
00170	ŏ	34000	ō	01220		CAS	O;A FFLWC G8	TO TEST IF FIRST FILE IS NOW EMPPTY	F3801080
	0	02000	0	00201		TRA	G8	WORD COUNT LES THAN BUFFER SIZE	F3801090
		02000				TRA	G7	WC EQUALS BS	F3B01100
		07400				TSX	G7 4•4 READFF•C	WORD COUNT INCORRECT	F3801110
	0	07400	4	00700	G7	TSX	READFF • C		F3801120
		76000				MSE	97	TEST IF FIRST FILE IS USED UP	F3801130
00176	0	02000	0	00201		TRA	G8	NO	F3801140
00177	0	07400	4	00724		TSX	M31000 • C	YES, GO TO TSX COM TABLE SEARCH	F3801130
00200		02000				TRA	OUT	TERMINAL ROUTINE	F3801160
00201				02362	G8	CLA	FFLBUF • A	TEST IF NEXT FIRST FILE ENTRY	F3801170
		10000				TZE	G5	BELONGS TOSAME BLOCK OF INSTRUCTIONS	F3801180
00203	. 0	07400	4	00724		TSX	M31000,C	NO	F3B01190
00204				02362	G9	CLA	FFLBUF • A	TEST IF NEXT FIRST FILE ALPHA	F3B01200
		32000					MASK	IS GREATER THAN PREVIOUS ONE	F3B01210
		34000				CAS	FFLCFN G2	INTERNAL FORMULA NUMBER	F3801220
00207	ō	02000	ō	00153		TRA	G2	YES, BACK TO COMPILE NEXT INSTRUCTION	F3B01230
		76100				NOP		•	F3B01240
		53400				LXA	L(4) •C	NO, COMPILE THIS INSTRUCTION	F3B01250
00212	ñ	50000	1	02362	G10	CLA	FFLBUF • A	ENTRY IN FIRST FILE BUFFER, SET	F3B01260
		60100				STO	FFLCOM+4 • C	UP FOUR WORDS OF ENTRY	F3B01270
		77777				TXI	G11•A•-1	STEP UP IR COUNTS	F3B01280
00214	2	00001	â	00212	G11	TIX	G10•C•1		F3B01290
00215	2	07400	4	01022	011	TSX	CITOO+C	COMPILER	F3B01300
00210	~	00000	7	01022		HTR	FFLCOM		F3B01310
.00211	0	00000	ñ	01222		HTR	FFLCOM+1	,	F3B01320
00220	ň	00000	ñ	01223		HTR	FFLCOM+2	•	F3B01330
00221	0	00000	ñ	01225		HTR	FFLCOM+3		F3B01340
	-0	75400	1	00000		PXD	O.A	TEST IF FIRS T FILE BUFFER	F3B01350
00223	-0	34000	ń	01220		CAS	FFLWC	IS EMPTY	F3B01360
00224	ŏ	02000	ň	00204		TRA	69	NO	F3B01370
		02000				TRA	G12	YES	F3B01380
		07400				TSX	4.4	WORD COUNT INCORRECT	F3B01390
	0	07400	7	00700	612	TSX	READEF • C	READ IN TO REFILL BUFFER	F3B01400
00230	-0	76000	7	00165	012	MSF	97	TEST IF AT END OF FIRST FILE	F3B01410
		02000				TRA	69		F3B01420
00232		02000				TRA	OUT	TERMINAL ROUTINE	F3B01430
00233	U	02000	U	00449		INA	001	ALPHA LESS THAN BETA	F3B01440
	^	E 2 / 0 0		01145	E 1	ΙYΔ	1 (4) • C	COMPILE	F3B01450
G0234	0	53400	*	02362	E 2	CLA	EFI RUE . A	FIRST	F3B01460
00235	0	50000	4	02302	E 3	STO	FFI COM+4 &C	FILE	F3B01470
00236	v	60100	7	01220		TYI	F2.441	INSTRUCTION SET UP FOUR WORDS	F3B01480
	ī	77777	, T	00240	E 2	TIY	E3.C.1		F3B01490
00240	2	00001	4	00235	E 2	TCY	CLIOO	COMPILER	F3B01500
				01022		UTD	EEL COM	COTH ACCIT	F3B01510
00242		00000				UTD	FFLCOM+1		F3B01520
.00243		00000				HIN	FFLCOM+3		F3B01530
00244		00000				U T I	EEL CONTS		F3B01540
00245		00000				HIK	7 - A	COMPARE WORD COUNT	F3B01550
00246	-0	75400	1	00000		CAC	CELUC	WITH RUFFER SIZE	F3B01560
	0	34000	0	01220		TDA	FF LWC	WC LESS THAN BS	F3B01570
00250		02000				TOA	L 1	WC FOULLS BS	F3B01580
00251		02000				TEV	L4 4 - 4	WORD COUNT INCORRECT	F3B01590
00252		07400			c.,	TCV	DEADEE AC	READ FIRST FILE	F3B01600
00253	0	07400	4	00700	E4	124	KENDI I	INTERNAL FORMULA NUMBER YES, BACK TO COMPILE NEXT INSTRUCTION NO, COMPILE THIS INSTRUCTION ENTRY IN FIRST FILE BUFFER, SET UP FOUR WORDS OF ENTRY STEP UP IR COUNTS COMPILER TEST IF FIRS T FILE BUFFER IS EMPTY NO YES WORD COUNT INCORRECT READ IN TO REFILL BUFFER TEST IF AT END OF FIRST FILE TERMINAL ROUTINE ALPHA LESS THAN BETA COMPILE FIRST FILE INSTRUCTION SET UP FOUR WORDS COMPILER COM	•

	·						
	00254 -0			MSI	97 A F1 A H1 A FFLBUF•A	IS FIRST FILE USED UP NO YES DOES NEXT INSTRUCTION IN FIRST FILE HAVE ZERO LOC WORD TSX COM TABLE SEARCH TEST KF PRESENT ALPHA IS GREATER THAN ALPHA OF PREVIOUS CIT NEXT INTERNAL FORMULA NO. PREPARE TO COMPILE THIS INSTRUCTION SET UP FOUR WORDS COMPILER COUNT OF POSITION OM FIRST FILE TEST IF FIRST FILE BUFFER IS EMPTY NO. GET NEXT CIT ENTRY WORD COUNT INCORRECT READ FIRST FILE TEST IF AT END OF FIRST FILE BACK TO GET NEXT FIRST FILE ENTRY ILE ROUTINE READ TIFGO FILE END OF TIFGO FILE END OF TIFGO FILE OO YES. TO TERMINAL ROUTINE COMPILE	F3B01610
	• • • • •	02000 0		TRA	1 F1	NO	F3D01620
		02000 0		TRA	HI	TES	F3001630
		50000 1		FI CL	FFLBUF •A	FIRST SILE HAVE ZERO LOC HORD	F3B01650
		10000 0		141	E1 M31000•C	TOY CON TABLE SEADON	F3801660
		07400 4			M31000 • C	TEST AND DESCRIPT ALBUM IS	F3B01660
		50000 1			FFLBUF •A	TEST RE PRESENT ALPHA 15	E3001610
	00263 -0				MASK	GREATER THAN ALPHA UF	E3B01680
	• •	34000 0			FFLCFN	PREVIOUS CIT	F3B01070
	• •	02000 0			C6	NEXT INTERNAL FORMULA NO.	F3B01710
		76100 0		NO			F3B01720
	•	53400 4			L(4) •C	DEEDADE TO COMPILE THIS INSTRUCTION	F3801730
		50000 1		-	\ FFLBUF•A) FFLCOM+4•C	SET UD FOUR WORDS	F3801740
		60100 4			F/- A1	SET OF FOOK HORDS	F3801750
		77777 1			F4•A•-1 F3•C•1		F3801760
		00001 4			CITOO+C	COMPTIED	F3B01770
_		07400 4			FFLCOM	COMPTEEN	F3801780
		00000 0			FFLCOM+1		F3801790
	• • • •	00000 0			FFLCOM+2		F3B01800
		000000			R FFLCOM+3		F3B01810
	00300 0				0 • A	COUNT OF POSITION OM FIRST FILE	F3B01820
		34000 0		CA	FFLWC	TEST IF FIRST FILE BUFFER	F3B01830
		02000 0		TR	F2	IS EMPTY	F3B01840
	•••	02000 0		TR	F5	NO. GET NEXT CIT ENTRY	F3B01850
	•	07400 4		TS	4.4	WORD COUNT INCORRECT	F3B01860
	• • • • •	07400 4		F5 TS	READFF • C	READ FIRST FILE	F3B01870
	00307 -0			MSI	5 FFLWC A F2 A F5 A 4,4 C READFF,C E 97 A F2	TEST IF AT END OF FIRST FILE	F3B01880
	• • • • •	02000 0		TR	, F2	BACK TO GET NEXT FIRST FILE ENTRY	F3B01890
		02000 0		TR	но		F3B01900
					END OF FIRST FI	ILE ROUTINE	F3B01910
٠	00312 0	07400 4	00724	H1 TS	M31000 • C	READ TIFGO FILE	F3B01920
	00313 -0			HO MS	98	END OF TIFGO FILE	F3B01930
	00314 0	02000 0	00316	TRA	N H2	NO	F3B01940
	00315 0			ŤR	OUT	YES, TO TERMINAL ROUTINE	F3B01950
	00316 0	53400 4	01145	H2 LX	L(4),C	COMPILE	F3B01960
	00317 0	50000 2	02216	H4 CL	\ TFGBUF•B	TIFGO	F3B01970
	00320 0	60100 4	01220	. ST	TFGCOM+4•C	FILE	F3B01980
	00321 1	77777 2	00322	TX	H3,B,-1	INSTRUCTION	F3B01990
	00322 2	00001 4	00317	H3 TI	(H4•C•1		F3802000
	00323 0	07400 4	01022	TS	CITOO.C	READ TIFGO FILE END OF TIFGO FILE NO YES, TO TERMINAL ROUTINE COMPILE TIFGO FILE INSTRUCTION COMPILER	F3602010
		0 00000		HT	TFGCOM		F3B02020
	•••	00000 0		HT	TFGCOM+1		F3B02030
	• • • •	00000 0		HTI	TFGCOM+2		F3B02040 F3B02050
		0 00000		HT	TFGCUM+3	COMPARE HORR COUNT	F3B02050
	00330 -0	75400 2	00000	PXI	7 U B	WITH RHEEFD CIZE	F3B02070
		34000 0		CAS	I TOWC	WILL DOLLEY STEE	F3B02070
	00332 0			TR/	M MZ	COMPARE WORD COUNT WITH BUFFER SIZE WC LESS THAN BS WC EQUALS BS WORD COUNT INCORRECT	F3B02090
	•	02000 0		1 1 1	(A - A	HILEMUNES DS	F3B02100
	• • • •	07400 4		15	C READTF • C	BUFFER NOW EMPTY, READ NEXT BLOCK	F3B02100
	• • • •	07400 4				BUFFER NOW EMPTIS NEWD MENT BLOCK	F3B02120
	00336 0	02000 0	00313	ł K	. но	ALPHA EQUALS BETA	F3B02120
		50000 3	02216	13 61	TECOHE . D	TEST IF LOC. WORD OF TIFGO FILE IS	F3B02140
	00337 0	50000 2	02216	JI CL	TFGBUF •B	TEST IF LOCE WORD OF THE 15	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

00340	0	12000	0	00376		TPL	L1	MINUS NO	F3B02150 F3B02160
								BETA IS MINUS , YES	F3B02170
00341	0	76000	0	00003		SSP			F3B02180
00342	0	60100	2	02216		STO	TFGBUF #B	SAVE LOCATION WORD	F3B02190
00343	0	40000	0	01203			L(370)	370(8) TO LOC. WORD OF FIRST FILE	F3B02190
00344	O	60100	1	02362		STO	FFLBUF •A	SAVE NEW LOCATION	F3B02200
00345	0	53400	4	01145	J4	LXA	L(4)•C	COMPILE	F3002210
00346		50000			J3		TFGBUF •B	TIFGO	F3B02220 F3B02230
00347		60100				STO	TFGCOM+4 • C	FILE	F3B02240
00350		77777				TXI	J2•B•-1	INSTRUCTION	F3002240
00351		00001			J2	TIX	J3•C•1	RESET IR 4	F3B02250
00352		07400				TSX	CITOO+C	COMPILER	F3B02260
00353		00000				HTR	TFGCOM	•	F3B02270
00354		00000				HTR	TFGCOM+1		F3B02280
00355	_	00000				HTR	TFGCOM+2	•	F3B02290
00356		00000				HTR	TFGCOM+3		F3B02300
00357	-0	75400	2	00000		PXD	0 • B	COMPARE WORD COUNT	F3B02310
00360		34000				CAS	TFGWC	WITH BUFFER SIZE	F3B02320
00361		02000				TRA	K3	WC LESS THAN BS	F3B02330
00362		02000				TRA	K1	WC EQUALS BS	F3B02340
00363		07400				TSX	494	WORD COUNT INCORRECT	F3B02350
00364		07400			K1	TSX	READTF +C		F3B02360
00364	-0	76000	Ô	00142		MSE	98	IS TIFGO FILE USED UP	F3B02370
00366	0	02000	ň	00370		TRA		NO	F3B02380
00367	٥	02000	ñ	00150		TRA	G1	YES	F3B02390
00370	ŏ	50000	2	02216	K3	CLA	TFGBUF .B	DOES NEXT INSTRUCTION IN	F3B02400
		32000			,,,,		MASK	TIFGO FILE BELONG TO CURRENT	F3B02410
00372	-0	34000	õ	01213			TEGCEN	COMPILED BLOCK	F3B02420
00372		02000				TRA		NO ·	F3B02430
00374		76100				NOP		YES	F3B02440
00375		02000				TRA	J4	YES	F3B02450
00313	•	02000	Ĭ,	00545				BETA IS PLUS	F3B02460
00376	^	53400	4	01145	L1	LXA	L(4)+C	OR TIFGO FILE	F3B02470
00277		50000			L2	CAL	TFGBUF +B	WITH FIRST FILE	F3B02480
00311	-0	60200	1	02362			FFLBUF .A	INSTRUCTION	F3B02490
. 00401	1	77777	1	00402			L8,A,-1	RESET IR COUNTS	F3B02500
00402	1	77777	2	00403	L8		L3,B,-1	•	F3B02510
00402	2	00001	4	00377			L2,C,1		F3B02520
		00004					L5.A.4		F3B02530
00404		53400			L5		L(4) +C	SAVE LOCATION WORD 370(8) TO LOG. WORD OF FIRST FILE SAVE NEW LOCATION COMPILE TIFGO FILE INSTRUCTION RESET IR 4 COMPILER COMPARE WORD COUNT WITH BUFFER SIZE WC LESS THAN BS WC EQUALS BS WORD COUNT INCORRECT IS TIFGO FILE USED UP NO YES DOES NEXT INSTRUCTION IN TIFGO FILE BELONG TO CURRENT COMPILED BLOCK NO YES YES BETA IS PLUS OR TIFGO FILE WITH FIRST FILE INSTRUCTION RESET IR COUNTS COMPILE FIRST FILE INSTRUCTION COMPARE WORD COUNT WITH BUFFER SIZE	F3B02540
	ŏ	50000	7	02362	L7		FFLBUF • A	FIRST	F3B02550
00406		60100					FFLCOM+4,C	FILE	F3B02560
00407		77777					L6,A,-1	INSTRUCTION	F3B02570
00410	- 2	00001	4	00406	16		L7,C,1		F3B02580
00411	~	07400	7	01022			CITOO.C		F3B02590
	Ŏ	00000	7	01022			FFLCOM		F3B02600
00413		00000					FFLCOM+1		F3B02610
00414		00000					FFLCOM+2		F3B02620
00415	Ü	00000	0	01224			FFLCOM+3		F3B02630
00416	-0	75400	1	00000			0 • A	COMPARE WORD COUNT	F3B02640
.00417	-0	34000	7	01220			FFLWC	WITH BUFFER SIZE	F3B02650
	Ŏ	24000	~	01220		TRA		WC LESS THAN BS	F3B02660
00421	0	02000	0	00430		TRA		WC EQUALS BS	F3B02670
00422	0	02000	0	00004			494	WORD COUNT INCORRECT	F3B02680
00423	U	07400	4	00004		JUN	7.7		

											E2002400
	00424	0	07400	4	00700	M1		READFF • C		to FIRST FILE HEED HD	F3B02690 F3B02700
			76000				MSE			13 1.1131 1.22 00.0	
	00426	0	02000	0	00430		TRA			DOES NEXT INSTRUCTION IN FIRST FILE BELONG TO CURRENT COMPILED BLOCK NO YES YES EST IF TIFGO FILE BUFFER IS EMPTY DORD COUNT INCORRECT NE S C OMPLIMENT OF NO. OF WORDS NITERED IN BLICK EST IF TRA INSTRUCTION	F3B02720
			02000				TRA	H3+6		ACTO MENT INCTRUCTION IN	F3D02120
			50000			МЗ	CLA	FFLBUF • A MASK		DOES NEXT INSTRUCTION IN	E3B02130
	00431	-0	32000	0	01162		ANA	MASK		FIRST FILE BELONG TO CORRENT	E3002750
	00432	0	34000	0	01221		-	FFLCFN		COMPILED BLOCK	F3B02130
	00433		02000				TRA	M4		NO -	F3002700
	00434	0	76100	0	00000		NOP			YES	F2002110
			02000					L5		YES	F3802780
	00436	-0	75400	2	00000	M4	PXD	0,2	T	EST IF TIFGO FILE BUFFER IS EMPTY	F3802790
			34000				CAS	TFGWC			F3802800
	00440		02000				TRA				F3B02810
			02000				TRA	C3			F3B02820
			07400				TSX	494	W	ORD COUNT INCORRECT	F3B02830
	00442	•		•			-	M3 TERMINAL	ROUTI	NE	F3B02840
	00443	-0	53400	1	01207	OUT	LXD	BBOX • 1	2	S C OMPLIMENT OF NO. OF WORDS	F3B02850
	00444	ď	50000	ī	02523	PAT1	CLA	CIB-3,1	E	NTERED IN BLICK	F3B02860
-	00444	ň	40200	ō	01172				T1	NTERED IN BLICK EST IF TRA INSTRUCTION EST	F3802870
			10000			PAT3	TZE	RTN	Y		
			02000			COR2	TRA	PAT4	N	Ó	
			63400			RET1	SXD	N2 • 1	S	AVE INDEX REG. NO. IN COMPARE INSTR.	F3B02900
			53400				LXA	1.(0)+1	1	NITIALIZE IR 1 TO 1	F3B02910
			70000			N-1	CPY	CIB • 1	R	EMAINDER OF	F3B02920
	00452		77777				-	N2 + 1 + - 1		AVE INDEX REG. NO. IN COMPARE INSTR. NITIALIZE IR 1 TO 1 EMAINDER OF INSTRUCTIONS IN BUFFER EST IF AT END OF BUFFER ES, WRITE END OF FILE FILE C + FORTRAN FUNCTION FILE AS 2ND FILE	F3B02930 F3B02940
			00000					N1 + 1	T	EST IF AT END OF BUFFER	F3B02940
						142	WEF		Y	ES. WRITE END OF FILE	E 3002050
	00455	0	77000	Ú	00204	M22000	MEI	3794.4 WR	ITE DO	FILE C + FORTRAN FUNCTION FILE AS 2ND FILE	F3B02960
	00456	-0	53400	4	01322	M32000	TYT	M32005 • 4 • 3	P	OSITION TAPE 2 TO READ DO FILE C	F3B02970
	00457	Ţ	00003	4	00460	HOOOE			• • •	001710H 7/H 2 2 10 H2/H2 03 13 13 13	F3B02980
						M32005	11V	M32005,4,1			F3B02990
	00461		00001				_	146	PI	FAD DO FILE C INTO STORAGE	F3B03000
	•		76200						1/1	LAD DO TILL C INTO STORMOL	F3803010
	00463		70000				_	3795	1.17	ORD COUNT	F3B03020
	00464		53400					3795 • 4	***	JRD COON!	F3B03030
	00465	_	00004					BST+4+4		ACK TO EIDET WA.	F3803040
	00466		76400	-		BST	BST		ы	ACK TO FIRST HOW	F3B03050
			00001					BST+4+1		ACT INCHITICICATION COUNT	F3B03060
	00470		76200					146		AST IDENTIFICATION COUNT	F3B03070
	00471		76200					146	W	COUNT	F3B03080
	00472		76600					148	21	ERO ON TAPE 4	F3B03090
	00473		70000					L(0)		TOTAL BROW TO SERA	F3B03100
	00474	0	50000	0	01141			L(0)	R	ESTURE BBUX TO ZERO	F3B03110
	00475		60100				-	ввох		IN ORE ALL SENSE SUITSUES	F3B03120
	00476	0	76000	0	00140		PSE		10	JRN OFF ALL SENSE SWITCHES	F3B03120
	00477	0	07400	4	00654	READ		READTF • 4	11	READ TIFGO FILE	E3003130
	00500	-0	76000	0	00142		MSE		Ti	EST IF AT END OF TIPOU FILE	F3B03140 F3B03150
	00501		02000					COMP	N	0	F3003130
	00502	0	02000	0	00522			FREAD	Y	LO .	F3B03160
	00503		53400			COMP	LXA	L(4),4	4	IN IR 4	F3B03170
	00504		50000				CLA	TFGBUF • 2	\$1	ET UP FOUR WORDS FOR COMPILATION	F3B03180
	00505	_	60100				STO	TFGCOM+4,4			F3B03190
	00506		77777				TXI	COMP1,2,-1			F3B03200
	00507		00001			COMP 1		COMP+1,4,1			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	00510		07400			J = , =		CIT00+4	C	DMPILER	F3B03220
	00310	0	01700	7	21022				-		

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	00511	'n	00000	_	01216		UTD	TFGCOM		F3B03230
			00000						•	F3B03240
			00000					TFGCOM+1		F3B03250
			00000					TFGCOM+2		F3B03260
			00000					TFGCOM+3	COUNT OF TIFGO	
			75400					0 • 2	COUNT OF TIPGO	F3D03210
			34000					TFGWC	COMPARE TO CURRENT FMLA. NO.	F3803280
			02000					COMP	LESS THAN, COMPILE ENTRIESP	F3B03290
			02000					READ	EQUAL TO. READ NEXT ENTRY	F3B03300
			07400					494	WORD COUNT INCORRECT	F3B03310
	00522	0	07400	4	00700	FREAD		READFF • 4	READ FIRST FILE	F3B03320
	00523	-0	76000	0	00141			97	COUNT OF TIFGO COMPARE TO CURRENT FMLA. NO. LESS THAN, COMPILE ENTRIESP EQUAL TO. READ NEXT ENTRY WORD COUNT INCORRECT READ FIRST FILE TEST IF AT END OF FIRST FILE	F3B03330
	00524	0	02000	0	00526			FCOMP	110	F3B03340
	00525	0	02000	0	00545			WRITE		F3B03350
						FCOMP	LXA	L(4),4	SET UP COUNT AND FOUR WORSD OF ENTRY	F3B03360
	00527	0	50000	1	02362			FFLBUF +1		F3B03370
	00530	0	60100	4	01226		STO	FFLCOM+4,4		F3B03380
	00531	1	77777	1	00532			FCOMP1,1,-1		F3B03390
	00532	2	00001	4	00527	FCOMP1	TIX	FCOMP+1,4,1		F3B03400
	00533	0	07400	4	01022		TSX	CITO0,4	COMPILER	F3B03410
			00000				HTR	FFLCOM		F3B03420
	00535	0	00000	0	01223		HTR	FFLCOM+1		F3B03430
			00000				HTR	FFLCOM+2		F3B03440
	00537	0	00000	0	01225		HTR	FFLCOM+3		F3B03450
	00540	-0	75400	1	00000		PXD	0 • 1		F3B03460
			34000				CAS	FFLWC		F3B03470
			02000				TRA	FCOMP		F3B03480
	00543	0	02000	0	00522		TRA	EDEAD		F3B03490
	00544	0	07400	4	00004		TSX	4,4 BBOX,1	WORD COUNT INCORRECT TWOS COMPLIMENT OF NO. OF ENTRIES	F3B03500
	00545	-0	53400	1	01207	WRITE	LXD	BBOX • 1	TWOS COMPLIMENT OF NO. OF ENTRIES	F3B03510
	00546	-3	00000	1	00555		TXL	WRITE2+1,1,0		F3B03520
	00547	0	76600	0	00224			148	SELECT TAPE 4	F3B03530
	00550	-0	63400	1	00554		SXD	WRITE2.1		F3B03540
	00550 00551	0	53400	1	01141		LXA	L(0),1		F3B03550
	00552	0	70000	1	02526	WRITE1	CPY	CIB • 1	REMAINDER OF BUFFER ONTO TAPE 4	F3B03560
	00553	1	77777	1	00554			WRITE2,1,-1		F3B03570
. D	00554	3	00000	1	00552	WRITE2	TXH	WRITE1:1		F3B03580
							WEF	148		F3B03590
	00556	0	53400	4	07323		LXA	3795,4		F3B03600
	00557	1	77000 (53400 (00003 (4	00560		IXT	POS,4,3		F3B03610
	00560	0	76400	0	00222	POS	BST	146	BACKSPACE OVER DO FILE C	F3B03620
	00561	2	00001	4	00560		XIT	POS,4,1		F3B03630
	00562	O	76200	0	00222	M32010	RDS	POS+4+1 146	WRITE ASCO OVER DO FILE C ON TAPE 2	F3B03640
	00563	0	76200	0	00222			146		F3B03650
	00564		76600 (WRS	146	SELECT TAPE 2	F3B03660
			70000					3796	COPY ASCO OVER DOFILE C	F3B03670
			50000				CLA	3796	SELECT TAPE 2 COPY ASCO OVER DOFILE C NO ASCO ENTRIES NUMBER OF ASCO ENTRIES IN IR 1 SHIFT WORD COUNT INITIAL ADDRESS INITIALIZE COPY ADDRESS ASCO TABLR	F3B03680
	00567						TZE	M32030-1	NO ASCO ENTRIES	F3B03690
			73400				PDX	0.1	NUMBER OF ASCO ENTRIES IN IR 1	F3B03690 F3B03700
			77100				ARS	18	SHIFT WORD COUNT	F3B03710
			40000				ADD	M32020	INITIAL ADDRESS	F3B03720 F3B03730
		0	62100 (0	00574		STA	M32020	INITIALIZE COPY ADDRESS	F3B03730
	00574	0	70000	1	07325	M32020	CPY	3797.1	ASCO TABLE	F3B03740
		2	00001	1	00574		TIX	M320207171		F3B03750
			77000				WEF	146	END OF FILE AFTER ASCO TABLE	F3B03760

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00577	0	53400	4	01202	M32030	LXA	M3ECTR+4	ERROR COUNT READ FIXCON INTO STORAGE DRUM CHECK SUM CHCHECKING WORD COUNT CHECK SUM CORRECTP TRY 4 MORE TIMES WORD COUNT INCORRECT ERROR COUNT WORD COUNT NO FIXCON ENTRIES INITIALIZE WORD COUNT INITIAL ADDRESS READ DRUM 2 FOR FIXCON TABLE SET IR 1 TO ZERO FIRST ENTRY CHECK SUM CORRECT TRY 4 MORE TIMES WORD COUNT INCORRECT SKIP OVER CHECK SUM NEXT ENTRY END OF TABLE COUNT RESET IR 2 TO ZERO WRITE FIXCON ON TAPE 2 SET UP FIX CON ENTRIES WHITHOUT CHECK SUMS FOR WRITING OUT ON TAPE 2 NO FIXCON ENTRY WRITE END OF FILE AFTER FIXCON BACKSPACE TAPE 2 FOR SECTION 4 TURN OFF ALL SENSE SWITCHES UTINES READING A RECORD OF TIFGO FILE SAVE LINKAGE IN IR 1 ERROR COUNT TAPE 2 TO READ TIFGO FILE RESET IR2 TO ZERO COPY TIFGO FILE FROM TAPE INTO BUFFER SET UP COUNT EOF	F3B03770
00600	ō	76200	0	00302		RDS	194	READ FIXCON INTO STORAGE	F3803780
00601	0	70000	0	01226		CPY	FIXCON-2	DRUM CHECK SUM CHCHECKING	F3B03790
00602	0	70000	0	01227		CPY	FIXCON-1	·	F3803800
00603	0	50000	0	01226		CLA	FIXCON-2	WORD COUNT	F3803810
00604	0	40200	0	01227		SUB	FIXCON-1	CHECK SUM	F3803820
00605	0	10000	0	00610		TZE	M32040	CORRECTP	F3803830
00606	2	00001	4	00600		TIX	M32030+1,4,1	TRY 4 MORE TIMES	F3803840
00607	0	07400	4	00004		TSX	494	WORD COUNT INCORRECT	F3803830
00610	0	53400	4	01202	M32040	LXA	M3ECTR+4	ERROR COUNT	F3003000
00611	0	50000	0	01226		CLA	FIXCON-2	WORD COUNT	F3B03610
00612	0	10000	0	00634		TZE	M32065	NO FIXCON ENIRIES	F3003000
00613	0	73400	3	00000		PAX	0,3	INITIALIZE WORD COUNT	F3803890
00614	0	40000	0	00623		ADD	M32055	INITIAL ADDRESS	F3B03900
00615	0	62100	0	00620		STA	M32050		E3D03910
00616	0	76200	0	00302		RDS	194	DEAD DOUBLE CON ELYCON TABLE	F3D03920
00617	0	46000	0	01143		LĐA	L(2)	READ DRUM 2 FOR FIXCON TABLE	E3003040
00620	0	70000	1	00000	M32050	CPY	0,1		F3D03940
00621	. 2	00001	1_	00620		TIX	M32050 • 1 • 1	CCT ID 1 TO 7500	F3803950
00622	0	53400	1	01141	·	LXA	L(0),1	SEL IK I TO ZERO	F3B03900
00623	0	50000	1	01230	M32055	CLA	FIXCON 1	CUCCY CUM	F3803910
00624	0	40200	1	01231		SUB	FIXCON+I 9 I	CORRECT	F3B03990
00625	0	10000	0	00630		12E	M32060	TOWNELL	F3804000
00626	2	00001	4	00611		TCV	M32040719491	WORD COUNT INCORPECT	F3B04010
00627	0	07400	4	00004		158	494 H22040+1-12	CATO UNED CHECK CIM	F3804020
00630	1	77776	1	00631	M32060	IXI	M32050+1919-2	MEYT ENTDY	F3B04030
00631	2	00002	2	00623		117	M320339292	FND OF TARIF COUNT	F3804040
00632	-0	63400	1	00644		520	M32010+291	PESET IR 2 TO 7FRO	F3804050
00633	0	53400	2	01141	422065	LAA	146	WRITE FIXCON ON TAPE 2	F3804060
00634	0	76600	0	00222	M32003	WKS	EIVCON-2	WILL TIREOUT ON THE E	F3B04070
00635	0	50000	0	01226		ADC	7 XCON-2	SET UP FIX CON ENTRIES WHITHOUT	F3B04080
00636	0	77100	0	00001		AKS	ETACON-3	CHECK SHIMS FOR WRITING OUT ON TAPE 2	F3B04090
00637	0	60100	0	01226		210	FIXCON-2	CHECK SOME TON WILLIAM SOFT SIN THE E	F3B04100
00640	0	70000	0	01226		T7E	M32075	NO FIXCON ENTRY	F3B04110
00641	0	10000	0	00645	M22070	CDV	EIVCON 2	NO 1 TYCON CHAN	F3B04120
00642	0	70000	2	01500	M32010	TVI	M3307042424=2		F3B04130
00643	1	77776	2	00644		TVI	M32070+2929 E		F3B04140
00644	3	00000	2	00042	M22075	MEE	146	WRITE FND OF FILE AFTER FIXCON	F3B04150
00645	0	77000	0	01145	M32013	I VA	1/41-4		F3B04160
00646	Ö	34400	4	00222		BST	146	BACKSPACE TAPE 2 FOR SECTION 4	F3B04170
00647	0	76400	,	00222		TIX	M32075+2+4+1		F3B04180
00650	2	740001	~	00041		PSF	96	TURN OFF ALL SENSE SWITCHES	F3B04190
00001	0	76200	Ö	00170		RTB	í		F3B04200
00652	ŏ	02000	ñ	000004		TRA	4.		F3B04210
00073	·	02000	•				M3 CLOSED SUBRO	UTINES	F3B04220
							SUBROUTINE FOR	READING A RECORD OF TIFGO FILE	F3B04230
00654	-0	63400	1	01211	READTF	SXD	E3M3 • A	SAVE LINKAGE IN IR 1	F3B04240
00655	ñ	53400	ī	01202		LXA	M3ECTR • 1	ERROR COUNT	F3B04250
00656	ő	76200	ō	00222	M3B3	RDS	146	TAPE 2 TO READ TIFGO FILE	F3B04260
00657	Õ	53400	2	01141		LXA	L(0) ,B	RESET IR2 TO ZERO	F3B04270
00007	õ	70000	2	02216	M3B1	CPY	TFGBUF , B	COPY TIFGO FILE FROM TAPE INTO BUFFER	F3B04280
00661	ĭ	77777	2	00660		TXI	M3B1.B1	SET UP COUNT	F3B04290
00662	ō	02000	Ō	00675		TRA	M3B4	EOF	F3804300
70302	•		-	-					

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00663	-0	76000	0	00000		RTT	219	IS TAPE CHECK INDICATOR ON		F3B04320
00004	-0	10000	Š	00012		TDA	Maga	YES		F3B04330
00665	- 0	62600	9	01012		SXU	TEGWC A B	NO		F3B04340
00000	-0	53400	2	01212		1 7 4	1 (0) aB	RESET INDEX OF TIEGO BUFFER		F3B04350
00667	Ŏ	53400	۲,	01141		LVA	E2M2.A	RESTORE INDEX OF FIRST FILE BUFFER		F3B04360
00670	-0	53400	1	01211		TOA	E SMS FA	EVID. BACK TO MAIN POLITINE		F3B04370
00671	0	02000	4	00001	***	PET	146	EAIR BACK TO HAIR ROOTINE		F3B04380
00672	0	76400	0	00222	M3B2	B31	140 H202 A 1	EDDAR BOUTINE		F3B04390
00673	2	00001	Ţ	00656		TCV	MODOSASI	EDDAR REALING TARE 2. TIEGO FILE		F3B04400
00674	0	07400	4	00004	***	134	494	INDICATE FND OF TIFGO FILE		F3B04410
00675	0	76000	0	00142	M384	PSE	98	DESTADE INDEX OF FIRST FILE BUFFFR		F3B04420
00676	-0	53400	1	01211		LXU	E3M3 •A	TRANSFER TO MAIN POLITINE		F3B04430
00677	. 0	02000	4	00001		IRA	TIC	DEADING A DECODD OF FIRST FILE		F3B04440
						- WB	SUBROUTINE FOR	CAVE COUNT IN ID 2 FOR LINKAGE		F3804450
00700	-0	63400	2	01210	READFF	SXD	EZM3 B	SAVE COUNT IN IN 2 FOR ETHANGE		F3804460
00701	0	53400	2	01202		LXA	M3ECTR .B	PEAN COUNT		F3B04470
00702	0	76200	0	00223	M3A3	RDS	147	READ FIRST FILE FROM TAPE 3		F3B04480
00703	0	53400	1	01141		LXA	L(0).A	INITIALIZE IKI 10 ZERO		E3004400
00704	0	70000	1	02362	M3A1	CPY	FFLBUF +A	COPY FIRST FILE INTO BUFFER		E3804500
00705	1	77777	1	00704		TXI	M3A1,A,-1			F3D04500
00706	0	02000	0	00721		TRA	M3A4	EOF		F3004510
00707	0	76600	0	00333		WRS	219	EOR DELAY 704 TO MAKE TAPE TEST		F3004320
00710	-0	76000	0	00012		RTT				F2004220
00711	0	02000	0	00716		TRA	M3A2	ERROR ROUTINE		F3804340
00712	-0	63400	1	01220		SXD	FFLWC•A	SAVE LOCATON WORD OF FIRST FILE		F3804550
00713	0	53400	1	01141		LXA	L(0) .A	RESET INDEX OF FIRST FILE BUFFER		F3804560
00714	-0	53400	.2	01210		LXD	E2M3+B	RESTORE INDEX OF TIFGO FILE BUFFER		F3804570
00715	0	02000	4	00001		TRA	1•C			F3804580
00716	0	76400	0	00223	M3A2	BST	147	BACKSPACE TAPE 3 TO TRY AGAIN		F3804590
00717	2	00001	2	00702		TIX	M3A3,B,1			F3804600
00720	0	07400	4	00004		TSX	494	ERROR READING FIRST FILE FROM TAPE	3	F3804610
00721	0	76000	0	00141	M3A4	PSE	97	INDICATE END OF FIRST FILE		F3804620
00722	-0	53400	2	01210		LXD	E2M3,B	RESTORE INDEX OF TIFGO FILE BUFFER		F3804630
00723	0	02000	4	00001		TRA	1,C			F3804640
00.25		•=					TSXCOM TABLE SE	ARCH		F3804650
00724	-0	63400	1	01211	M31000	SXD	E3M3,1	SAVE LINKAGE OF FIRST FILE BUFFER		F3804660
00725	-0	63400	4	01210		SXD	E2M3,4	SAVE LINKAGE FROMT TSX INSTR.		F3804670
00726	0	60000	0	01065		STZ	DUP	REINITIALIZE HTE INSTR.		F3804680
00727	0	50000	0	01226	M31005	CLA	TSXCOM-2	TEST WORD COUNT OF CHECK SUM		F3804690
00730	ō	40200	Ô	01227		SUB	TSXCOM-1			F3B04700
00731	ō	10000	Ö	01017		TZE	M31080	CHECK SUM EQUALS WORD COUNT		F3B04710
00732	֖	53400	1	01226		LXD	TSXCOM-2:1	WORD COUNT IN IR1		F3B04720
00732	Ö.	50000	1	01230		CLA	TSXCOM.1	FIRST ENTRY		F3B04730
00734	-0	32000	ō	01162		ANA	MASK	SAVE DECREMENT, INTERNAL FMLA. NO.		F3B04740
00734	ñ	40200	ñ	01221		SUB	FFLCFN	FIRST FILE LOCATION NO.		F3B04750
00735	-0	10000	ň	01017		TNZ	M31080	NOT EQUAL. NO TSXCOM ENTRY		F3B04760
00130	-0	10000	~	01011			CUR FIRST FILE	FMLA NO APPEARS IN TSXCOM		F3B04 7 70
00727	-0	50000	1	01231	M31015	CAL	TSXCOM+1.1			F3B04780
0075	-0	33000	4	01145	1171017	ΔΝΔ	PMASK	IS TAPE CHECK INDICATOR ON YES NO RESET INDEX OF TIFGO BUFFER RESTORE INDEX OF FIRST FILE BUFFER EXIR. BACK TO MAIN ROUTINE ERROR ROUTINE ERROR READING TAPE 2. TIFGO FILE INDICATE END OF TIFGO FILE RESTORE INDEX OF FIRST FILE BUFFER TRANSFER TO MAIN ROUTINE READING A RECORD OF FIRST FILE SAVE COUNT IN IR 2 FOR LINKAGE ERROR COUNT READ FIRST FILE FROM TAPE 3 INITIALIZE IR1 TO ZERO COPY FIRST FILE INTO BUFFER EOF EOR DELAY 704 TO MAKE TAPE TEST ERROR ROUTINE SAVE LOCATON WORD OF FIRST FILE RESET INDEX OF FIRST FILE BUFFER RESTORE INDEX OF TIFGO FILE BUFFER RESTORE INDEX OF TIFGO FILE BUFFER BACKSPACE TAPE 3 TO TRY AGAIN ERROR READING FIRST FILE FROM TAPE : INDICATE END OF FIRST FILE RESTORE INDEX OF TIFGO FILE BUFFER ARCH SAVE LINKAGE OF FIRST FILE BUFFER ARCH SAVE LINKAGE FROMT TSX INSTR. TEST WORD COUNT OF CHECK SUM CHECK SUM EQUALS WORD COUNT WORD COUNT IN IR1 FIRST ENTRY SAVE DECREMENT, INTERNAL FMLA. NO. FIRST FILE LOCATION NO. NOT EQUAL. NO TSXCOM ENTRY FMLA NO APPEARS IN TSXCOM SAVE SIGN OF SECOND WD. OF ENTRY TYPE 1 ENTRY NEGATIVE TYPE 2 ENTRY SAVE ADDRESS AND STORE IN 4TH WORD OF FIRST FILE COMPILER SECOND WORD OF ENTRY		F3B04790
00740	-0	10000	0	01105	CORR	17F	CI T07+6	TYPE 1 ENTRY NEGATIVE		F3B04800
00741	0	10000	v	01330	CONS	CLA	TSXCOM.1	TYPE 2 ENTRY		F3B04810
00/42	0	22000		01163		ANA	AMASK	SAVE ADDRESS AND STORE IN		F3B04820
00743	-0	32000	Ō	01103		CTO	FFI COM+3	4TH WORD OF FIRST FILE COMPILER		F3B04830
00744	Ü	00100	Ū	01223		CLA	TEXCOMALAI	SECOND WORD OF ENTRY		F3B04840
00745	0	20000	Ţ	01231		CLA	ISVEOMATAT	SECOND HOND OF ENTINE		

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00746	0	60100	0	1224			FFLCOM+2	3RD. WORD OF COMPILER COMPILE INSTRUCTION ZERO LXD INSTRUCTION	F3B04850
00747		07400 4					CITOO,4	COMPILE INSTRUCTION	F3B04860 F3B04870
00750		00000			-		L(0)	ZERO	F3B04880
00751		00000					L(LXD)	LXD INSTRUCTION	F3804890
00752		00000					FFLCOM+2		F3B04900
00753		00000					FFLCOM+3	CTED HE COUNT FOR NEVT TOYCOM ENTRY	F3B04910
00754		77776 1				IXI	M31030•1•-2	STEP UP COUNT FOR NEXT ISXCOM ENTRY SAVE NEW WORD COUNT	F3B04920
					M31030	270	TSXCOM-2,1	DACK TO CEADON DEMAING ENTRIES	F3B04930
00756	Û	02000	, (00121	W21025	TCV	CIT00,4	TYPE I ENTRY	F3B04940
00757					M31033	UTD	1.10094	7FPO	F3B04950
00760		00000				HIN	1 (840)	SAU	F3B04960
00761		00000				HTD	1 (64)	SAVE NEW WORD COUNT BACK TO SEARCH REMAING ENTRIES TYPE I ENTRY ZERO SXD +060000000000 00004000004 SECOND WORD OF ENTRY SAVE ADDRESS ADD 120000000000 IN 3RD. WORD OF COMPILER FOR NEXT INSTRUCTION ZERO TSX 12(8) PLUS ADDRESS +000000000004 SECOND WORD SAVE ADDRESS STORE IN 4TH. WORD OF COMPILED INSTR.	F3B04970
00762		00000				HTD	1 (5.4)	0000000000	F3804980
00763		50000 1				CIA	TSXCOM+1.1	SECOND WORD OF FATRY	F3B04990
00764		32000 0				ANA	AMASK	SAVE ADDRESS	F3B05000
		50100				ORA	1 (10H)	ADD 12000000000	F3B05010
		60100				STO	FFI COM+2	IN 3RD. WORD OF COMPILER	F3B05020
		07400 4				TSX	C1100+4	FOR NEXT INSTRUCTION	F3B05030
 00771		00000				HTR	L(0)	ZERO	F3B05040
00772		00000				HTR	L(TSX)	TSX	F3B05050
00773		00000				HTR	EFLCQM+2	12(8) PLUS ADDRESS	F3B05060
		00000				HTR	L(4)	+000000000004	F3B05070
00775	Ô	50000 1	0	1231	M31050	CLA	TSXCOM+1.1	SECOND WORD	F3B05080
		32000 0				ANA	AMASK	SAVE ADDRESS	F3B05090
		60100				STO	FFLCOM+3	STORE IN 4TH. WORD OF COMPILED INSTR.	F3B05100
		50100					L(12H)	ADD 12(8) AND DTORE IN 3RD.	F3B05110
01001		60100					FFLCOM+2	WORD OF INSTRUCTION IN COMPILER	F3B05120
		07400 4					CIT00,4		F3B05130
01003		00000				HTR	L(0)	ZERO	F3B05140
01004		00000				HTR	L(LXP)	LXP	F3B05150
01005		00000				HTR	FFLCOM+2	12(8) PLUS ADDDRESS	F3B05160
01006		00000				HTR	FFLCOM+3	ADDRESS	F3B05170
01007		77776 1				TXI	M31063-1,1,-2	RESET IR1 FOR NEXT ENTRY	F3B05180
		63400 1				SXD	TSXCOM-2,1	SAVE WORD COUNT	F3B05190
01011	0	07400 4	0	1022	M31063	TSX	CI T00+4 C	OMPILE INSTRUCTION	F3B05200
01012	0	00000	0	1141		4 4 T D	L(0)	ZER000000000	F3B05210
01013	0	00000	0	1156		HTR	L(LXD) L(6H)	LXD	F3B05220
01014		00000					L(6H)	+06000000000	F3B05230
01015	0	00000 0	0	1155			L(5.4)	000004000004	F3B05240
01016	0	02000 0	0	0727			M31005	CONTI UE TABLE SEARCH	F3B05250
01017	-0	53400 1	0	1211	M31080		E3M3 • 1	END OF TSXCOM TABLE SEARCH	F3B05260
01020	-0	53400 4	+ 0	1210			E2M3+4	RESTORE IR COUNTS FROM LINKAGE	F3B05270
01021	0	02000 4	+ 0	00001		TRA	1,4	STORE IN 4TH. WORD OF COMPILED INSTR. ADD 12(8) AND DTORE IN 3RD. WORD OF INSTRUCTION IN COMPILER ZERO LXP 12(8) PLUS ADDDRESS ADDRESS RESET IR1 FOR NEXT ENTRY SAVE WORD COUNT OMPILE INSTRUCTION ZERO000000000 LXD +060000000000 CONTI UE TABLE SEARCH END OF TSXCOM TABLE SEARCH RESTORE IR COUNTS FROM LINKAGE AND GO BACK TO MAIN ROUTINE NE.CITOO SAVE CONTENTS OF MO SAVE CONTENTS OF IR1 SAVE CONTENTS OF IR12 2S COMPLIMENT OF NO. OF WORDS OF ENTRY	F3B05280
							COMPILING ROUTI	NE + C 1 1 0 0	F3B05290
		60000 0			CITOO	STQ	EIC	SAVE CONTENTS OF MQ	F3805300
		63400]					E2C+1	SAVE CONTENTS OF IRI	F3B05310
01024	-0	63400 2	2 0	1206			E3C,2	SAVE CONTENTS OF IR12	F3B05320
		53400 2				_,			
01026	3	77634 2	2 0	1036			CIT04,2,-100	TEST IF LESS THAN 100 AND GREATER	F3805340
01027	-3	00000 2	2 0	1036			CIT04,2,0	THAN ZERO . IF SO. COMPILE INSTRUCTION	F3B05350
		76600 0				WRS		CET COUNT IN ID: 1 TO 7500	F3805360
01031	0	53400 1	١ ٥	1141			M1CON,1	SET COUNT IN IR 1 TO ZERO	F3B05370 F3B05380
01032	0	70000 1	. 0	2526	C1101	CHY	CIBIL	REFILL BUFFER	1 3009360

01033 1 77777 1 01034	TXI CIT02,1,-1	RESET COUNTS FOR FIRST ENTRY IN BUFFER	F3B05390
01034 1 00001 2 01035 CITO2	TXI CIT03,2,1		F3B05400
01035 3 00001 2 01032 CITO3	TXH CIT01,2,1		F3B05410
01036 0 53400 1 01145 CIT04	LXA M1CON+4,1	COUNT OF 4 IN IR1	F3B05420
01037 0 50000 0 01142	CLA M1CON+1		F3B05430
01040 0 62100 0 01041	STA CITOS		F3B05440
01041 0 50000 4 00000 CITO5	CLA 0,4	LINKAGE FROM MAIN ROUTINE PLUS 1	F3B05450
01042 0 62100 0 01043	STA CITO6		F3B05460
01043 0 50000 0 00000 CITO6	CLA	FIRST PARAMETER. 2ND.) 3RD.) AND4TH. AND STORE IN PROPER OUTPUT AREA	F3B05470
01044 0 60100 2 02526	STO CIB,2	AND STORE IN PROPER OUTPUT AREA	F3B05480
01045 0 50000 0 01041	CLA CITOS		F3B05490
01046 0 40000 0 01142	ADD M1CON+1		F3B05500
01047 0 62100 0 01041	STA CITOS	TO GET NEXT WORD	F3B05510
01050 1 77777 2 01051	TXI CITO7,2,-1	DECREASE COUNT IN IR1 AND 2 BY ONE	F3B05520
01051 2 00001 1 01041 CITO7	TIX CIT05,1,1		F3B05530
01052 -0 63400 2 01207	SXD BBOX . 2	SAVE COUNT OF CIB BUFFER	F3B05540
01053 0 56000 0 01204	LDQ E1C	REDTORE MQ	F3B05550
01054 -0 53400 1 01205	LXD E2C+1	RESTORE IR 1	F3B05560
01055 -0 53400 2 01206	LXD E3C+2	RESTORE IR2	F3B05570
01056 0 02000 4 00005	TRA 5.4	BACK TO MAIN ROUTINE	F3B05580
01057 0 50000 1 01231	CLA TSXCOM+1+1		F3B05590
01060 0 34000 0 01065	CAS DUP	·	F3B05600
01061 0 02000 0 01063	TRA DIF	SAVE COUNT OF CIB BUFFER REDTORE MQ RESTORE IR 1 RESTORE IR2 BACK TO MAIN ROUTINE	F3B05610
01062 1 77776 1 00755	TXI M31030+1+-2		F3B05620
01062 1 77776 1 00755 01063 0 60100 0 01065 DIF	STO DUP		F3B05630
01064 0 02000 0 00757	TRA M31035		F3B05640
01065 0 00000 0 00000 DUP	HTR		F3B05650
01066 0 07400 4 01022 PAT4	TSX CITOO+4	COMPILER FOR LOAD BUTTON SEQUENCE	• F3B05660
01067 0 00000 0 01175 PAT5	HTR ZERO		F3B05670
01070 0 00000 0 01166 PAT6	HTR L(RCD)	RCD	F3B05680
01071 0 00000 0 01175 PAT7	HTR ZERO		F3B05690
01072 0 00000 0 01175 PAT8	HTR ZERO		F3B05700
01073 0 07400 4 01022 PAT9	TSX CITOO,4	COMPILE INSTRUCTION	F3B05710
01074 0 00000 0 01175 PAT10	HTR ZERO		F3B05720
01075 0 00000 0 01167 PAT11	HTR L(CPY)	CPY	F3B05730
01076 0 00000 0 01175 PAT12	HTR ZERO		F3805740
01077 0 00000 0 01175 PAT13	HTR ZERO		F3B05750
01100 0 07400 4 01022 PAT14	TSX CITOO,4		F3B05760
01101 0 00000 0 01175 PAT15	HTR ZERO		F3B05770
01102 0 00000 0 01179 PAT16	HTR L(XIT)	XIT	F3B05780
7.5.75±F	HTR [115H)	+170000000000	F3B05790
01103 0 00000 0 01173 PAT17 01104 0 00000 0 01177 PAT18	HTR LIZDI	000002000000	F3B05800
	TSX CITO0+4		F3B05810
	HTR ZERO	COMPILE INSTRUCTION CPY XIT +170000000000 000002000000 HPR 7 PLUS LOC. NO. OF RCD INSTR.	F3B05820
	HTR L(HPR)	HPR	F3B05830
	HTR ZERO		F3B05840
	HTR L(7-)	7 PLUS LOC. NO. OF RCD INSTR.	F3B05850
	TSX CITOO + 4	HPR 7 PLUS LOC. NO. OF RCD INSTR. CPY 000000000001	F3B05860
	HTR ZERO		F3B05870
	HTR L(CPY)	CPY	F3B05880
01114 0 00000 0 01167 PAT26	HTR ZERO	•	F3B05890
01115 0 00000 0 01175 PAT27	HTR ONED	00000000001	F3B05900
01116 0 00000 0 01176 PAT28	TSX CITO0+4	00000000	F3B05910
01117 0 07400 4 01022 PAT29	HTR ZERO		F3B05920
01120 0 00000 0 01175 PAT30	HIN ZENO		

```
F3B05930
                                                   TIX
                              HTR L(XIT)
      0 00000 0 01170 PAT31
01121
                                                                                                  F3B05940
      0 00000 0 01175 PAT32
                              HTR ZERO
01122
                                                                                                  F3B05950
                              HTR ZERO
      0 00000 0 01175 PAT33
01123
                                                                                                  F3B05960
       0 07400 4 01022 PAT34
                              TSX CITOO,4
01124
                                                                                                 F3B05970
                              HTR L(LOC)
                                                   +003777000370
       0 00000 0 01174 PAT35
01125
                                                   HPR
                                                                                                 F3B05980
01126 0 00000 0 01171 PAT36
                              HTR L(HPR)
                                                                                                 F3B05990
      0 00000 0 01175 PAT37
                              HTR ZERO
01127
                                                                                                 F3B06000
                                                   000001000007
      0 00000 0 01201 PAT38
                              HTR L(1.7)
01130
                                                                                                 F3B06010
      0 07400 4 01022 PAT39
                              TSX CITOO,4
                                                                                                 F3B06020
                              HTR ZERO
      0 00000 0 01175 PAT40
01132
                                                                                                 F3B06030
                                                   TRA TO FINAL HALT
                              HTR L(TRA)
      0 00000 0 01172 PAT41
01133
                                                                                                 F3B06040
                              HTR L(LOC)
      0 00000 0 01174 PAT42
01134
                                                                                                 F3B06050
                              HTR ZERO
01135 0 00000 0 01175 PAT43
                                                                                                 F3B06060
                                                  RESTORE COUNT IN IR1
01136 -0 53400 1 01207 PAT44
                              LXD BBOX+1
                                                                                                 F3B06070
                              WRS 148
01137 0 76600 0 00224 RTN
                                                   BACK TO COMPLETE TERMINAL ROUTINE
                                                                                                 F3B06080
01140 0 02000 0 00450 PAT46
                              TRA RET1
                                  WORKING STORAGE AND CONSTANTS
                                                                                                 F3B06090
                                                                                                 F3B06100
                              EQU 1
                 00001 A
                                                                                                 F3B06110
                 00002
                              EQU 2
                        В
                                                                                                 F3B06120
                        C
                              EQU 4
                 00004
                                                                                                 F3B06130
01141 +0000000000000
                        L(0)
                              DEC 0
                                                                                                 F3B06140
                 01141 M1CON SYN L(0)
                                                                                                 F3B06150
01142 +0000000000001
                        L(1)
                              DEC 1
                                                                                                 F3B06160
                              DEC 2
                       L(2)
01143 +0000000000002
                                                                                                 F3B06170
                              DEC 3
01144 +0000000000003
                        L(3)
                                                                                                 F3B06180
                              DEC 4
01145 +0000000000004
                        L(4)
                                                                                                 F3B06190
                              DEC 8
01146 +0000000000010
                        L(8)
                                                                                                 F3B06200
                       L(704) DEC 704
01147 +000000001300
                                                                                                 F3B06210
                       L(706) DEC 706
01150 +000000001302
                                                                                                 F3B06220
                       L(1D)
                              DEC 1817
01151 +000001000000
                                                                                                 F3B06230
                       L(6H)
                              OCT 60000000000
01152 +0600000000000
                                                                                                 F3B06240
                       L(10H) OCT 12000000000
01153 +120000000000
                                                                                                 F3B06250
                       L(12H) OCT 140000000000
01154 +1400000000000
                                                                                                 F3B06260
                       L(5.4) OCT 4000004
01155 +000004000004
                                                                                                 F3B06270
                       L(LXD) BCD 1LXD000
01156 436724000000
                                                                                                 F3B06280
01157 626724000000
                       L(SXD) BCD 15XD000
                                                                                                 F3B06290
                       L(TSX) BCD 1TSX000
01160 636267000000
                                                                                                 F3B06300
                       L(LXP) BCD 1LXP000
01161 436747000000
                                                                                                 F3B06310
                        MASK OCT 77777000000
01162 +077777000000
                                                                                                 F3B06320
                        AMASK OCT 77777
01163 +000000077777
                        2BIT OCT 100000000000
                                                                                                 F3B06330
01164 +100000000000
                                                                                                 F3B06340
01165 -300000000000
                        PMASK OCT 70000000000
                       L(RCD) BCD 1RCD000
                                                                                                 F3B06350
01166 512324000000
                                                                                                 F3B06360
01167 234770000000
                       L(CPY) BCD 1CPY000
                                                                                                 F3B06370
                       LIXIT) BCD 1XITO00
01170 673163000000
                                                                                                 F3B06380
                       L(HPR) BCD 1HPR000
01171 304751000000
                       L(TRA) BCD 1TRA000
                                                                                                 F3B06390
01172 635121000000
                                                                                                 F3B06400
                       L(15H) OCT 17000000000
01173 +170000000000
                       L(LOC) OCT 3777000370
                                                                                                 F3B06410
01174 +003777000370
                                                                                                 F3B06420
                             P7E
01175 0 00000 0 00000 ZERO
                                                                                                 F3B06430
                       ONED
                              DEC 1817
01176 +000001000000
                                                                                                 F3B06440
                       L(2D) DEC 2817
01177 +000002000000
                                                                                                 F3B06450
                       L(7-) DEC 7
01200 +000000000007
                                                                                                F3B06460
                       L(1.7) OCT 1000007
01201 +000001000007
```

***				205	MARCID	DEC	£	F3B06470
		000000			M3ECTR L(370)			F3B06475
		00000				OC,	CELL FOR SAVING MQ	F3B06480
01204		00000					CELL FOR SAVING IRA	F3B06490
01205	-	00000	-		-		CELL FOR SAVING IRB	F3B06500
01200		00000					25 COMP OF NO OF WORDS ALREADY ENTERED IN BLOCK	F3B06510
01210		00000						F3B06520
01211		00000						F3B06530
01211	•	00000	•	00000	255		SENSE LITE 98 ON FOR END OF TIFGO FILE	F3B06540
01212	٠.	00000	٥	00000	TEGWC		TIFGO WORD COUNT	F3B06550
01213					TEGCEN		CURRENT FORMULA NUM FOR TIFGO INSTRUCTION	F3B06560
01213	•	00000	٠		TEGCOM	BSS	4 TIFGO COMPILER	F3B06570
				V124			SENSE LITE 97 ON FOR END OF FIRST FILE	F3B06580
01220	Ω	00000	٥	00000	FFLWC		SENSE LITE 98 ON FOR END OF TIFGO FILE TIFGO WORD COUNT CURRENT FORMULA NUM FOR TIFGO INSTRUCTION TIFGO COMPILER SENSE LITE 97 ON FOR END OF FIRST FILE FIRST FILE WORD COUNT	F3B06590
01221					FFLCFN		CURRENT FORMULA NUM FOR FIRST FILE INSTR	1 200000
V	•		•		FFLCOM	BSS	4 FIRST FILE COMPILER	F3B06610
01226	0	00000	٥			PZE		F3B06620
01227		00000				PZE		F3B06630
V	•		•		TSXCOM	BSS	502	F3B06640
				01230	FIXCON	SYN	TSXCOM	F3B06650
					TFGBUF			F3B06660
				02362	FFLBUF	BSS	100 FIRST FILE BUFFER	F3B06670
				02526	CIB		100	F3B06680
				02673		ORG	1467	F3B06681
02673	0	60200	0	01226	TSXPT1	SLW	TSXCOM-2	F3B06682
02674		0.7400				TSX	READTF • 4	F3B06683
02675	0	07400	4	00700		TSX	READFF • 4	F3B06684
02676	-0	76000	0	00141		MSE		F3B06685
02677		02000					TSXPT2	F3B06686
02700	0	76000	0	00141		PSE		F3B06687
02701	0	02000	0	00076			M30050+3	F3B06688
02702	0	50000	0	01230	TSXPT2	CLA	TSXCOM	F3806689 F3806690
02703		34000					FFLBUF	F3806691
02704		02000					M30050+3	F3806692
02705		02000					M30050+3	F3B06693
02706		50000					TSXCOM	F3B06694
02707		62200					FFLCFN	F3B06695
02710		07400					M31000,4	F3B06696
62711	0	02000	0				M30050+3	F3B06700
		4.		00030		END	24	F 3000 100

REM 704 FO	RTRAN	11, 4-1	-6-2	SYSTEM		, .		F4400010	
				704 FO		N II 9 4-1-6-2		•	F4400010
						- FLOW ANALYS			F4400020
		*		ROBERT	C. I	BRILL - NOVEN	BER 13, 1958		F4400030
									F4400040
								THE FORTRAN II 4-1-6-2	F4400050
								TO THE 8-1-6-2 SYSTEM	F4400060
								THIS LISTING.	F4400070
				11			, LOCATION 77		F4400080
							TO 0031400000		F4400090
				11			• LOCATION 63		F4400100
				-	(000000000215	TO 0000000010)37	F4400110
	•							• • •	F4400120
									F4400130
					LION	STATEMENTS			F4400140
		BBBB.J						T TWO DEFINITIONS MAKE	F4400150
	00674	BBSIZE	SYN	444				GRAM COMPATIBLE WITH	F4400160
								1 5 (TAG ANALYSIS) THE	
								ARE THOSE OF PREDL (BLOC	
				•				OF PRED TABLE) AND 6*BBB	
								LENGTH OF BB TABLE) RES-	
								LY. AS GIVEN IN THE	F4400210
						•		5 LISTING.	F4400220
	04230	NOINS	SYN	2200				TH OF COMPILED	F4400230
	- .						INSTRUC	TION TABLE (CIT)-PART 1	
		ZINSTM						EVIOUS - PART 2	F4400250
_		ZINSTR						EVIOUS - PART 6	F4400260
•	01274			700	-		LENGTH OF	BB LIST	F4400270
		ZTIFRD					BLOCK LENG	TH OF TIFRD TH AND DRUM ADD FOR FRET	F4400280
		XFRET=					PABLE LENG	TH AND DRUM ADD FOR FRET	F4400290
*		ZFRET=					BLOCK LENG	IH OF FREI	F4400300
	00620			400			LENGIH OF	TH OF FRET SET TABLE TH OF SET TABLE NLIST TRA TABLE	F4400310
	00310			200			LENGTH OF	IN UP SEI TABLE	F4400320
		ZNLIST					LENGTH OF	NLISI	F4400330
	05360			2800			LENGIH OF	TH OF TOA TABLE	F4400340
	01274		_	700				TH OF TRA TABLE	F4400350
	00017		SYN					TH OF TAGLIST	F4400360
	00000	XXXXXX	31:1	U.				ANCE OF THIS SYMBOL IN TING INDICATES THAT ITS	F4400370
						,		S SET BY THE PROGRAM.	F4400380
	00004	DDEODT	CVN	4.				RT 4 CALLS IN THE DIAG-	F4400390
	00004	RDFORT	3114	4		,			F4400400
								ROUTINE A RDS SYSTAP	F4400410
							IN THE A	D BY A TRA RDFORT CALLS	F4400420
								NEXT RECORD OF THE PROGRAM.	F4400430
	07776	BBOX∙=	CVN	4002				ING ARE THE ADDRESSES	F4400440
		DOBOX=						IAL COUNTERS	F4400450
		SSBOX=					OF SECT	INE COUNTERS	F4400460 F4400470
		TTBOX=							
	• • • • •	SUCCBX							F4400480
		PREDBX							F4400490
		BBTBOX							F4400500
	•	SYSTAP	_				FORTPAN CVC	STEM TAPE (LOGICAL 1)	F4400510
								FRET, AND DOTAG	F4400520
	00222	TBLTAP	2111	140			ITEGO FIRAD	FIREIF AND DUIAG	F4400530

			· ·	
			TAPE (LOGICAL 2)	F4400540
00223 TAGTA	P SYN	147	TAGLIST TAPE (LOGICAL 3)	F4400550
00223 BLT	SYN	147	BBLIST TAPE (LOGICAL 3)	F4400560
00224 INST1	P SYN	148	CIT TAPE (LOGICAL 4)	F4400570
00301 TIFDE	M SYN	193	TIFRD DRUM (LOGICAL 1)	F4400580
00301 DOCRE	R SYN	193	DOCARE DRUM (LOGICAL 1)	F4400590
00301 DODRU	M SYN	193	TAPE (LOGICAL 2) TAGLIST TAPE (LOGICAL 3) BBLIST TAPE (LOGICAL 3) CIT TAPE (LOGICAL 4) TIFRD DRUM (LOGICAL 1) DOCARE DRUM (LOGICAL 1) DOLIST DRUM (LOGICAL 1)	F4400600
00301 TRADE	M SYN	193	INITIAL TRA TABLE DRUM (LOGICAL 1)	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
00302 FRTDR	M SYN	194	FRET DRUM (LOGICAL 2)	F4400620
00303 BBLDF	M SYN	195	BBLIST DRUM (LOGICAL 3)	F4400630
00303 SETDE	M SYN	195	SET DRUM (LOGICAL 3)	F4400640
01750 TIFAE	D SYN	1000	DRUM ADDRESS FOR TIFRD	F4400650
03270 DOADE	R SYN	1720	DRUM ADDRESS FOR DO LIST	F4400660
02260 BBLAD	D SYN	1200	DRUM ADDRESS FOR DO LIST DRUM ADDRESS FOR BB LIST DRUM ADDRESS FOR FRET DRUM ADDRESS FOR SET TABLE THE FOLLOWING ARE THE BASE ADDRESSES OF ALL TABLES	F4400670
01750 FRTAD	D SYN	1000	DRUM ADDRESS FOR FRET	F4400680
01275 SETAD	D SYN	701	DRUM ADDRESS FOR SET TABLE	F4400690
07773 BBL15	T SYN	4091	THE FOLLOWING ARE THE BASE	F4400700
06500 DOL15	T SYN	BBLIST-ZBB+1	ADDRESSES OF ALL TABLES	F4400710
06024 INST	A SYN	DOLIST-300		F4400120
06024 TIFRE	SYN	DOLIST-300		F4400730
03710 TRAD	= SYN	TIFRD-1100		F4400740
06023 FRET	= SYN	DOLIST-301		F4400750
06023 DVFQ	= SYN	FRET .=		F4400760
04216 DOTAG	SYN	DVFQ.=-301-600		F4400770
04216 DOCAR	E SYN	DOTAG		F4400780
06024 TRA.	M SYN	DOLIST-300		F4400790
04524 SET	M SYN	TRA. M-ZTRA-4		F4400800
04214 TIFRE	M SYN	SET M-200		F4400810
03703 INST	M SYN	TIFROM-201		F4400820
07774 SETLO	C SYN	BBLIST+1		F4400830
07773 TRATE	L SYN	BBLIST	·	F4400840
02413 BBTAE	L SYN	TRATBL-2800	•	F-400850
02414 FIXDO	S SYN	BBTABL+1		F4400860
01114 NLIST	SYN	BBTABL-ZBB-3		~~~~0870
01062 FRET	SYN	NLIST-26		-4400880
01062 SETTA	B SYN	NLIST-25-1		F-400390
01260 SNSLT	SYN	NLIST+100		F4+00900
01120 DOBLO	K SYN	BBTABL-ZBB+1		F4400910
00443 LCNTR	SYN	DOBLOK-300-1		F4400920
06500 TAG	SYN	88L1ST-288+1		F4400930
06460 INST.	R SYN	TAG-15-1	TAPE (LOGICAL 2) TAGLIST TAPE (LOGICAL 3) BBLIST TAPE (LOGICAL 3) CIT TAPE (LOGICAL 4) TIFRD DRUM (LOGICAL 1) DOCARE DRUM (LOGICAL 1) DOLIST DRUM (LOGICAL 1) INITIAL TRA TABLE DRUM (LOGICAL 1) FRET DRUM (LOGICAL 2) BBLIST DRUM (LOGICAL 3) SET DRUM (LOGICAL 3) DRUM ADDRESS FOR TIFRD DRUM ADDRESS FOR BB LIST DRUM ADDRESS FOR BB LIST DRUM ADDRESS FOR SET TABLE THE FOLLOWING ARE THE BASE ADDRESSES OF ALL TABLES	F4400940
06314 BBTAG	S SYN	INST.R-100		F4400950
06024 INSTA	SYN	INST.A		F4400960
03703 INSTM	SYN	INST.M		F4400970
06460 INSTR	SYN	INST•R		F4400980
07773 PRED	SYN	TRATBL		F4400990
04524 SETM	SYN	SETM		F4401000
06024 TRAM	SYN	TRAM		F4401010
01574 BGINS	SYN	TRATBL SETM TRAM INSTA-NOINS FRET=-1000 TRAM-700 INSTM-300 TIFRDM-200 SETLOC-ZSET	END OF INST. BLOCK (PART 1) BEGINNING OF FRET (PART 1)	F4401020
04053 FRETN	= SYN	FRET -=-1000	BEGINNING OF FRET (PART 1)	F4401030
04530 NDTRA	SYN	TRAM-700	END OF TRA TABLE BLOCK (PART 2)	F4401040
03227 NDINS	SYN	INSTM-300	END OF INST. BLOCK (PART 2) END OF TIFRD BLOCK (PART 2) END OF SET BLOCK (PART 3)	F4401050
03704 NTIFR	SYN	TIFRDM-200	END OF TIFRD BLOCK (PART 2)	F4401060
07464 NDSET	SYN	SETLOC-ZSET	END OF SET BLOCK (PART 3)	F4401070

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